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TABLE OF CONTENTS

	PAGE NUMBER
PREFACE	iii
SUMMARY OF RESULTS	ív
INTRODUCTION	1
Background	1
SURVEY METHODOLOGY	2
Inventory Development	2
Survey Administration	2 2 5
Survey Sample	2
Data Processing and Analysis	5
Task Factor Administration	5
SPECIALTY JOBS (CAREER LADDER STRUCTURE)	6
Overview of Specialty Jobs	7
Group Descriptions	11
ANALYSIS OF DAFSC GROUPS	48
Skill-Level Descriptions	51
Summary ANALYSIS OF AFR 39-1 SPECIALTY DESCRIPTIONS	51
ANALYSIS OF AFR 39-1 SPECIALTY DESCRIPTIONS	51
ANALYSIS OF TAFMS GROUPS	52
First-Enlistment Personnel	52
Job Satisfaction	52
TRAINING ANALYSIS	56
Training Emphasis	56
Analysis of the Specialty Training Standard (STS)	58
POI Analysis	58
Summary	59
ANALYSIS OF CONUS-OVERSEAS GROUPS	61
MAJCOM ANALYSIS	61
COMPARISON TO PREVIOUS SURVEY	63
IMPACT OF SOLID-STATE TECHNOLOGY	66
IMPLICATIONS	68
APPENDIX A - SELECTED REPRESENTATIVE TASKS PERFORMED	
BY CAREER LADDER STRUCTURE GROUPS	69
APPENDIX B - SELECTED REPRESENTATIVE TASKS PERFORMED	
BY DUTY AFSC GROUPS	70
APPENDIX C - SELECTED REPRESENTATIVE TASKS PERFORMED	
BY TAFMS GROUPS	71
APPENDIX D - SELECTED REPRESENTATIVE TASKS PERFORMED	
BY CONUS/OVERSEAS GROUPS	72

PREFACE

This report presents the results of an Air Force occupational survey of the Aircraft Electrical Systems career ladder (AFSC 423X0). Authority for conducting occupational surveys is contained in AFR 35-2. Computer printouts from which this report was produced are available for use by operations and training officials upon request.

The survey instrument was developed by First Lieutenant William A. Carney, Inventory Development Specialist. Second Lieutenant David L. Hardy, Occupational Analyst, analyzed the data and wrote the final report. Ms Becky Hernandez provided computer programming support for the project. This report has been reviewed and approved by Major Charles D. Gorman, Chief, Airman Career Ladders Analysis Section, Occupational Analysis Branch, USAF Occupational Measurement Center.

Copies of this report are distributed to Air Staff sections, major commands, and other interested training and management personnel. Additional copies may be obtained upon request to the USAF Occupational Measurement Center, Attention: Chief, Occupational Analysis Branch (OMY), Randolph AFB, Texas 78150-5000.

PAUL T. RINGENBACH, Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph. D. Chief, Occupational Analysis Branch USAF Occupational Measurement Center

SUMMARY OF RESULTS

- 1. <u>Survey Coverage</u>: A total of 1,814 members of the 423XO career ladder were surveyed to obtain current data for use in training and management decisions. All major commands with assigned aircraft were represented.
- 2. Specialty Jobs: Most of the aircraft electrical personnel were part of the following job groupings: technical maintenance functions (flightline, troubleshooting, battery shop, in-shop, etc.), or supervisory and management functions (line, branch, or specialist flightline supervisors, quality control, training, or maintenance scheduling). There are a few small independent job types that are identifiable by either a specific aircraft or a unique technical responsibility. Overall, the career field is relatively consistent in the tasks members spend the most time performing.
- 3. <u>Career Ladder Progression</u>: The 423XO career ladder follows a typical pattern of career progression through skill levels. Three- and 5-skill level personnel are performing mostly technical tasks, while 7-skill level personnel perform technical tasks as well as supervisory and management duties.
- 4. AFR 39-1 Specialty Descriptions: The 3-, 5- and 7-skill level descriptions accurately reflect the jobs performed by career ladder personnel.
- 5. Training Analysis: The STS appears to have been matched well to the tasks of the inventory. The POI has several tasks that should be considered for inclusion in the basic course. Both documents need to be reviewed because of their general nature and also should be compared to the FTD courses of instruction. In the end, the personnel of the 423XO career ladder seem to get the proper training; however, documentation of required training should be improved.
- 6. <u>Comparison to Previous Survey</u>: This occupational analysis presents a more detailed look at the career ladder structure than the 1979 report. As a whole, the career field appears stable.
- 7. <u>Implications</u>: Analysis indicates that a core of common training, followed by system-specific training, would be the most effective and efficient means of providing training. Training documentation should be improved to aid training personnel in making such decisions.

OCCUPATIONAL SURVEY REPORT AIRCRAFT ELECTRICAL SYSTEMS CAREE, LADDER (AFSC 423X0)

INTRODUCTION

This is a report of an occupational survey of the Aircraft Electrical Systems career ladder (AFSC 423X0) completed by the Occupational Analysis Branch, USAF Occupational Measurement Center, in February 1985. This specialty was last surveyed in 1978. The present survey was requested by HQ USAF/LEYM.

Background

AFSC 423X0 was created in 1951 as the Senior Aircraft Propeller Mechanic career field. In 1954, the career field was established as the Aircraft Electrical Career Ladder. Between 1959 and 1961, the career field became Aircraft and Missile Electrical Repairman career field. Between 1961 and 1976, members were known as Aircraft Electrical Repairman. In 1976, the 423X0 AFS stabilized as the Aircraft Electrical Systems career field.

As described in AFR 39-1 Specialty Description, Aircraft Electrical Systems personnel are responsible for troubleshooting, inspecting, repairing, modifying, and overhauling aircraft electrical systems. Also, they maintain the associated electrical components, subsystems, and test equipment, as well as maintaining inspection and maintenance records.

Primary entry into the career ladder is from Basic Military Training School (BMTS) through a Category A, 15-week, formal training course (C3ABR42330 000) conducted at Chanute AFB, Illinois. The course includes topics such as DC Principles, AC Electronics, Aircraft Control and Warning Systems, and Aircraft Inspection and Maintenance. After completion of the ABR Course, most airmen are sent to a specific assignment where they receive FTD training on specific aircraft systems and begin hands-on work and OJT programs.

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SURVEY METHODOLOGY

Inventory Development

The data collection for this occupational survey was accomplished by using USAF Job Inventory AFPT 90-423-501, dated November 1983. A tentative task list was prepared after reviewing current career ladder publications, tasks from previous job inventories, and data from the previous occupational survey report (OSR). The tentative task list was then evaluated through personal interviews with 34 subject-matter specialists from 7 bases. The resulting job inventory contained a comprehensive listing of 554 tasks grouped under 12 headings. A background section contained questions regarding grade, duty title, total time in service, total time in career field, time in present job, total active federal military service, job satisfaction, and test equipment used.

Survey Administration

Consolidated Base Personnel Offices (CBPO) in operational units worldwide administered the inventory to personnel holding AFSC 423XO. These individuals were selected from a computer-generated mailing list obtained from personnel data tapes maintained by the Air Force Human Resources Laboratory (AFHRL).

Each individual completed the survey in three steps:

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- 1. Completion of the Background Information Section;
- 2. Identification of each task performed in their current job; and
- 3. A rating of each task performed on a 9-point scale, showing the relative amount of time spent on that task in comparison to the other tasks performed.

The ratings ranged from one (very small amount of time spent) through five (above average time spent) to nine (very large amount of time spent).

Survey Sample

Personnel were selected to participate in this survey to ensure an accurate representation across major commands (MAJCOM) and paygrade groups--2,151 eligible 3-, 5-, and 7-skill level AFSC 423X0 personnel were mailed inventory booklets. Table 1 shows the percentage distribution by MAJCOM of the assigned personnel in the career field, as of March 1984. Also listed by MAJCOM is the percent distribution of respondents used in the final sample. The 1,814 personnel included in the final sample represent 50 percent of the personnel assigned to the 423X0 career field. Table 2 reflects the paygrade distribution, while Table 3 lists the sample distribution by TAFMS.

TABLE 1
COMMAND REPRESENTATION OF SURVEY SAMPLE

COMMAND	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
TAC	32	30
MAC	21	22
SAC	18	20
USAFE	11	11
ATC	7	7
PACAF	5	4
AFLC	2	2
AFSC	2	3
AAC	1	1

Total Assigned* = 3,643
Total Eligible for Survey** = 2,151
Total in Sample = 1,814
Percent of Assigned in Sample = 50%
Percent of Eligible in Sample = 84%

* Assigned strength as of March 1984

** Personnel retiring, PCS, or separating are not eligible

NOTE: Columns may not equal 100 percent due to rounding

TABLE 2
PAYGRADE REPRESENTATION OF SURVEY SAMPLE

PAYGRADE	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
E-1, E-3	36	35
E-4	25	24
E-5	23	24
E-6	11	11
E-7	5	6

* As of March 1984

TABLE 3
TAFMS DISTRIBUTION OF SURVEY SAMPLE

	MONTHS IN SERVICE					
	1-48	49-96	97-144	145-192	193-240	241+
NUMBER IN AFS 423X0 SAMPLE	821	503	193	168	93	36
PERCENT IN AFS 423X0 SAMPLE	45%	28%	11%	9%	5%	2%
PERCENT OF AFS 423X0 ASSIGNED*	57%	19%	9%	8%	6%	1%

* As of March 1984

TABLE 4

COMMAND DISTRIBUTION OF TASK DIFFICULTY AND TRAINING EMPHASIS RATERS

COMMAND	PERCENT OF ASSIGNED	PERCENT OF TASK DIFFICULTY RATERS	PERCENT OF TRAINING EMPHASIS RATERS
TAC	32	20	25
MAC	21	22	18
SAC	18	22	23
USAFE	11	13	16
ATC	7	13	4
PACAF	5	4	•
AFLC	2	2	4
AFSC	2	5	6
AAC	1	-	4

NOTE: Columns may not equal 100 percent due to rounding

Data Processing and Analysis

Once job inventories are returned from the CBPOs, the background information and task responses are checked for proper completion. The data are then entered into the computer. A series of related computer programs, called the Comprehensive Occupational Data Analysis Programs (CODAP), is then applied to the data to aid in analysis. The resulting CODAP computer products identify groups of survey respondents based on percent members performing and percent time spent on tasks.

Task Factor Administration

In addition to completing a job inventory, selected senior 423X0 personnel were asked to complete a second booklet for either training emphasis (TE) or task difficulty (TD). The TE and TD booklets are processed separately from the job inventories. Rating information is discussed in several detailed sections of this report. Table 4 shows the sample representation across MAJCOMs for TE and TD raters. The reliability among raters indicates that any other variations in MAJCOM representation have an insignificant impact on the data.

Task Difficulty. Each person completing a task difficulty booklet was asked to rate all inventory tasks on a 9-point scale (from extremely low to extremely high) as to the relative difficulty of those tasks. Difficulty is defined as the length of time required by an average individual to learn to do a particular task. Task difficulty data were independently collected from senior personnel in the 423XO career ladder stationed worldwide. Interrater reliability (as assessed through components of variance of standard group means) was .94, which indicates a high degree of agreement among the 55 raters as to which tasks are high in task difficulty and which are low. Ratings were adjusted so tasks of average difficulty have ratings of 5.00 and a standard deviation of 1.00. The resulting data essentially provides a rank ordering of tasks indicating the degree of difficulty for each task in the inventory.

Strength and Stamina Requirements. These senior personnel were also asked to indicate the tasks that any of the 423XO personnel they supervise have experienced difficulty performing because of excessive physical strength or stamina requirements inherent in the task. There were no significant responses to problems with strength and stamina from this survey question.

Job Difficulty Index (JDI). After the data obtained from the raters on task difficulty is processed, it is possible to compute a JDI for the job groups identified in the survey analysis. An equation using the number of tasks performed and the average difficulty per unit time spent (ADPUTS) is the basis for calculating the JDI. In this equation, the more time a group spends on difficult tasks, or the more tasks they perform, the higher the JDI. The index ranges from 1.0 for extremely easy jobs to 25.0 for extremely difficult jobs. The indices are adjusted so the average JDI is 13.0. This index provides a relative measure of which jobs in the specialty are more or less difficult when compared to each other. The index helps identify possible utilization problems or causes of job dissatisfaction.

Training Emphasis (TE). Another group of senior technicians were selected to complete training emphasis booklets by rating tasks on a 10-point scale (from no (0) training required to extremely high (9) training required). rating that essentially rank orders the tasks listed according to relative amount of emphasis that sould be placed on each task when training first-term personnel. When used in conjunction wth other factors, such as percent members performing and task difficulty ratings, TE data can provide insight into the at which structured training for a particular task should be provided. Structured training is defined as training provided at resident technical schools, field training detachments (FTD), mobile training teams (MTT), formal OJT, or any other organized training program. The interrater reliabilty (as assessed through components of variance of standard group means) for the 49 raters of training emphasis was .94, indicating a very high level of agreement among raters concerning training requirements. In this specialty, the average TE rating was 2.63, and the standard deviation was 1.61. Tasks with a TE rating of 4.24 or higher are considered high in training emphasis.

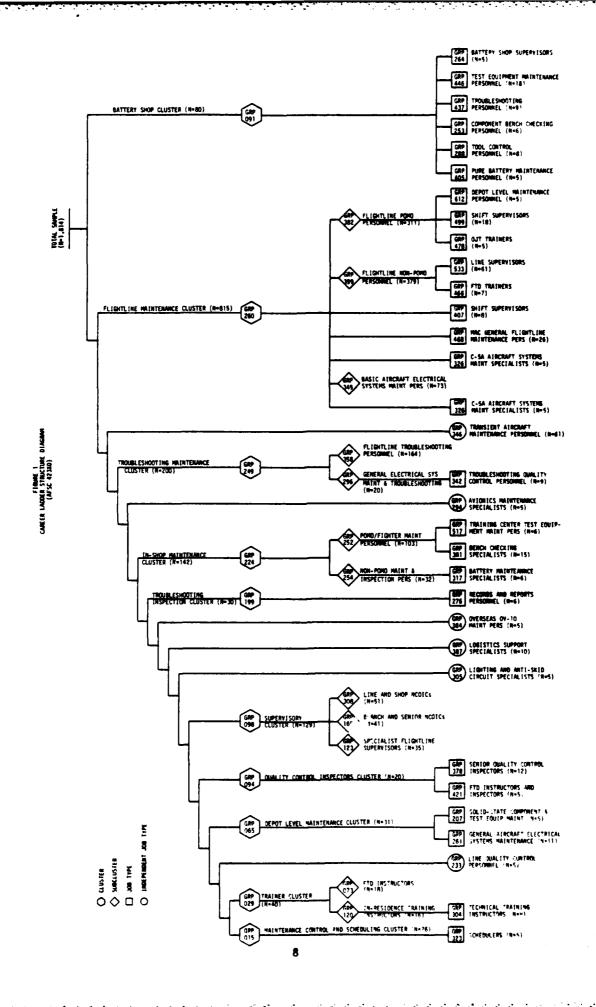
SPECIALTY JOBS (CAREER LADDER STRUCTURE)

An important part of the USAF Occupational Analysis Program is the identification of the functional structure within the career ladder. The tasks performed by career ladder personnel are examined and job groups are formed based on task similarity. The structure is then compared to the organization defined by official career ladder documents. This analysis of actual jobs performed is made possible by the use of the Comprehensive Occupational Data Analysis Program (CODAP). Job information is then used to examine the accuracy and completeness of career ladder documents (AFR 39-1 Specialty Descriptions and Specialty Training Standards) and to formulate an understanding of current utilization patterns.

Each individual in the survey sample performs a set of tasks called a job. A group of individuals who perform similar tasks, and spend similar amounts of time performing those tasks, is called a job type. Personnel who are performing similar tasks but fail into several job types that differ in minor ways form a subcluster. Job types and subclusters having a substantial degree of similarity are grouped together and called a cluster. Those specialized job types too dissimilar to fit within a cluster are labeled independent job types.

Overview of Specialty Jobs

A thorough analysis of the survey data identified 10 clusters, 12 subclusters, 26 job types, and 6 independent job types. The division of jobs performed by 423XO personnel is based on task similarity and relative amount of time spent and is illustrated in Figure 1. These clusters, subclusters, job types, and independent job types are listed below. The group (GRP) number shown beside each title is a reference to computer-printed information; the number of personnel in the group (N) is also shown. The number of personnel in subclusters and job types included in each cluster does not always equal the number of personnel shown for that cluster. The jobs of those not included are adequately described by the cluster description.



- I. BATTERY SHOP CLUSTER (GRP091, N=80)
 - A Battery Shop Supervisors Job Type (GRP264, N=5)
 - B. Test Equipment Maintenance Personnel Job Type (GRP446, N=16)
 - C. Troubleshooting Personnel Job Type (GRP437, N=9)
 - D. Component Bench Checking Personnel Job Type (GRP253, N=6)
 - E. Tool Control Personnel Job Type (GRP288, N=8)
 - F. Pure Battery Maintenance Personnel Job Type (GRP405, N=5)
- II. FLIGHTLINE MAINTENANCE CLUSTER (GRP260, N=815)
 - A. Flightline POMO Personnel Subcluster (GRP382, N=311)
 - 1. Depot Level Maintenance Job Type (GRP612, N=5)
 - 2. Shift Supervisors Job Type (GRP499, N=18)
 - 3. OJT Trainers Job Type (GRP478, N=5)
 - B. Flightline Non-POMO Personnel Subcluster (GRP399, N≈379)
 - 1. Line Supervisors Job Type (GRP533, N=61)
 - 2. FTD Trainers Job Type (GRP466, N=7)
 - C. Shift Supervisors Job Type (GRP407, N=8)
 - D. MAC General Flightline Maintenance Personnel Job Type (GRP468, N=26)
 - E. Advanced Reconnaissance Aircraft Maintenance Personnel Job Type (GRP416, N=6)
 - F. Basic Aircraft Electrical Systems Maintenance Personnel Subcluster (GRP349, N=73)
 - G. C-5A Aircraft Systems Maintenance Specialists Job Type (GRP326, N=5)
- III. TRANSIENT AIRCRAFT MAINTENANCE PERSONNEL INDEPENDENT JOB TYPE (GRP346, N=61)
- IV. TROUBLESHOOTING AND MAINTENANCE CLUSTER (GRP249, N=200)
 - A. Flightline Troubleshooting Personnel Subcluster (GRP358, N=164)
 - B. General Electrical Systems Maintenance and Troubleshooting Personnel Subcluster (GRP296, N=20)
 - Troubleshooting Quality Control Personnel Job Type (GRP342, N=9)
- V. AVIONICS MAINTENANCE SPECIALISTS INDEPENDENT JOB TYPE (GRP294, N=5)
- VI. IN-SHOP MAINTENANCE CLUSTER (GRP224, N=142)

- A. POMO/Fighter Maintenance Personnel Subcluster (GRP252, N=103)
 - Training Center Test Equipment Maintenance Personnel Job Type (GRP517, N=6)
 - 2. Bench Checking Specialists Job Type (GRP381, N=15)
- B. Non-POMO Maintenance and Inspection Personnel Subcluster (GRP254, N=32)
 - 1. Battery Maintenance Specialists Job Type (GRP317, N=6)
- VII. TROUBLESHOOTING AND INSPECTION CLUSTER (GRP199, N=30)
 - A. Records and Reports Personnel Job Type (GRP276, N=6)
- VIII. OVERSEAS OV-10 MAINTENANCE PERSONNEL INDEPENDENT JOB TYPE (GRP384, N=5)
 - IX. LOGISTICS SUPPORT SPECIALISTS INDEPENDENT JOB TYPE (GRP387, N=10)
 - X. LIGHTING AND ANTI-SKID CIRCUIT SPECIALISTS INDEPENDENT JOB TYPE (GRP305, N=5)
 - XI. SUPERVISORY CLUSTER (GRP098, N=129)
 - A. Line and Shop NCOICs Subcluster (GRP308, N=51)
 - B. Branch and Senior NCOICs Subcluster (GRP165, N=41)
 - C. Specialist Flightline Supervisors Subcluster (GRP123, N=35)
- XII. QUALITY CONTROL INSPECTORS CLUSTER (GRP094, N=20)
 - A. Senior Quality Control Inspectors Job Type (GRP378, N=12)
 - B. FTD Instructors and Inspectors Job Type (GRP421, N=5)
- XIII. DEPOT LEVEL MAINTENANCE CLUSTER (GRP065, N=31)
 - A. Solid-State Component and Test Equipment Maintenance Personnel Job Type (GRP207, N=5)
 - B. General Aircraft Electrical Systems Maintenance Personnel Job Type (GRP261, N=11)
- XIV. LINE QUALITY CONTROL PERSONNEL INDEPENDENT JOB TYPE (GRP233, N=5)
- XV. TRAINER CLUSTER (GRP029, N=40)
 - A. FTD Instructors Subcluster (GRP073, N=18)
 - B. In-Residence Training Instructors Subcluster (GRP120, N=16)
 - 1. Technical Training Instructors Job Type (GRP304, N=8)

XVI. MAINTENANCE CONTROL AND SCHEDULING CLUSTER (GRP015, N=26)

A. Schedulers Job Type (GRP323, N=5)

Of the survey respondents, 88 percent are grouped in the clusters and independent job types listed above. The remaining 12 percent perform jobs that are different enough so they do not group with any of the defined specialty jobs. Job titles given by the ungrouped respondents include: Aviation Electrical Specialist, Dispatcher, TO Monitor, NCOIC Tool Crib, and Support Equipment Electrician.

Group Descriptions

The following paragraphs contain brief descriptions of the job types, subclusters, clusters, or independent job types identified in the career ladder structure analysis. Selected background information and job satisfaction data are provided for these groups in Tables 5 and 6. Representative tasks for the groups discussed below are contained in Appendix A.

I. BATTERY SHOP CLUSTER (GRP091, N=80). The members of this cluster are relatively junior personnel, with 66 percent in their first enlistment and a large percentage (39 percent) holding a 3-skill level DAFSC. Most individuals in this cluster are assigned to SAC and TAC, with about one quarter assigned to a POMO unit. A wide range of aircraft are serviced, with the B-52G/H or KC-135 as the most reported.

Members of this cluster perform an average of 33 tasks and perform fewer technical tasks than many other groups in the career field; also, their JDI is 3.0, the lowest in the career field. The job satisfaction indicators reflect a low sense of fulfillment that could be a result of the simple narrow job indicated above. Most of their time is spent on battery-related tasks, such as:

clean nickel-cadmium batteries assemble or disassemble nickel-cadmium batteries inspect aircraft batteries remove or install cells on nickel-cadmium batteries clean lead acid batteries remove or install connectors on nickel-cadmium batteries

There are several identifiable job types which vary slightly due to a few tasks performed in some other duty; however, the major portion of every group member's time is spent on battery maintenance tasks that are the cluster's core tasks. Therefore, the cluster description best describes the jobs within the six identified job types.

II. <u>FLIGHTLINE MAINTENANCE CLUSTER (GRP260, N=815)</u>. This cluster is the largest in the career field, representing 45 percent of the total sample. Two-thirds of the cluster hold a 5-skill level DAFSC, with 27 percent holding a 7-skill level. Approximately half are in their first enlistment, with 37 percent working in a POMO unit. The major command users are TAC (32 percent), MAC (24 percent), SAC (23 percent), and USAFE (8 percent).

Members of this cluster perform an average of 112 tasks and spend threequarters of their time performing basic maintenance tasks. They call themselves flightline specialists, with slightly higher than average job satisfaction. Some of the top reported tasks for the cluster are:

crimp wires to splices and terminals isolate malfunctions on exterior lighting circuits isolate malfunctions on AC generator systems remove or install connector plugs inspect fire and overheat detection circuit components inspect interior lighting circuit components

Several job differences were apparent in this cluster. Most of the variations were due to MAJCOM and aircraft differences. This will be noted in the following discussion of the three subclusters and four job types within the cluster.

A. Flightline POMO Personnel Subcluster (GRP382, N=311). Members of this subcluster of personnel are predominately assigned to the tactical forces (TAC, 68 percent; USAFE, 18 percent; and PACAF, 5 percent), and perform basic flightline maintenance on fighter aircraft (A-10, F-4E, F-15, F-16, or F-111). Eighty-one percent of this subcluster are assigned to a POMO unit. An average of 94 tasks are performed by this group's members, with a JDI of 14.1. The job satisfaction indicators are above average for the career field. Unique tasks that distinguish this group are as follows:

isolate malfunctions on tail hook control circuits inspect tail hook control circuit components inspect speed brake control circuit components isolate malfunctions on speed brake control circuits inspect canopy control and warning circuit components isolate malfunctions on nose-wheel steering circuits isolate malfunctions on canopy control circuits

There are variations within this subcluster that are a result of the specific aircraft maintained. These are very minor and are indicative of the high degree of similarity among all members of the subcluster. There are several job types, however, that are worth pointing out because of some unique tasks performed that are not centered on a specific aircraft.

1. Depot Level Maintenance Personnel Job Type (GRP612, N=5). Members of this job type are all assigned to AFLC, and call themselves depot maintenance personnel. They all hold at least a 5-skill level, with an average TAFMS of 94 months. The JDI is 14.2 and, instead of being associated with just one aircraft, they report working on several aircraft (F-4C/D/E, RF-4C, F-15, or F-16). The average number of tasks performed by this group is 98. Tasks reported by this group include:

perform TCTO modifications of aircraft electrical systems remove or install connector pins on connector plugs crimp wires to splices and terminals replace compact wire bundles rewire compact wire bundles rewire aircraft electrical systems crimp kapton wire to converter plug pins perform proto-type time compliance technical orders (TCTO)

2. Shift Supervisors Job Type (GRP499, N=18). This job type has an average TAFMS of 128 months, with half of the members holding a 5-skill level and half a 7-skill level. They perform an average of 76 tasks and have a JDI of 12.6. The increase in experience level is reflected in the amount of time performing supervisory tasks. Some of the tasks that help to differentiate this group are listed below:

inspect aircraft electrical systems following maintenance supervise Aircraft Electrical Systems Specialists (AFSC 42350) make entries on AFTO Forms 781 (Aerospace Vehicle Flight Data Document) supervise personnel other than AFSC 423X0 prepare airman performance reports (APR)

3. OJT Trainers Job Type (GRP478, N=5). This job type is comprised mostly of TAC personnel who hold at least a 5-skill level. An average of 97 tasks is reported with a JDI of 14.9 indicating a slightly harder than average job. Some distinguishing tasks performed by this group are listed below:

demonstrate how to locate technical information conduct OJT counsel trainees on training progress

observe in-process maintenance or make on the spot corrective actions maintain training records, charts, or graphs direct or implement OJT training programs evaluate OJT trainees

The above mentioned job types basically are performing the same central tasks as the rest of the cluster, but were briefly discussed because of those unique tasks that made their job slightly different from the rest of the subcluster.

B. Flightline Non-POMO Personnel Subcluster (GRP399, N=379). This subcluster is composed of mostly MAC (41 percent) and SAC (43 percent) personnel who maintain the "heavy aircraft" (KC-135, B-52G/H, EC-135, CT-39, C-130, C-135, C-141, or C-5A). The group reports an average of 131 tasks, which is a somewhat broader job than the Flightline POMO Personel perform. Because of MAJCOM organizational differences, these individuals have a greater amount of interface with in-shop activities than the members of the Flightline POMO Personnel subcluster, thus illustrating why these individuals perform, on the average, more tasks and work a more difficult job. The JDI is 17, which is a relatively high amount of job difficulty for the Aircraft Electrical career ladder. Some of the unique tasks that distinguish this group are listed below:

isolate malfunctions on galley or latrine electrical circuits isolate malfunctions on nesa glass anti-icing circuits inspect nesa glass anti-icing circuit components inspect galley or latrine electrical circuit components remove or install nesa glass anti-icing circuit components inspect crew entry door control and warning circuits isolate malfunctions on cargo door control and warning circuits

About 35 percent of this subcluster are in their first enlistment. This subcluster contains many slight variations due to specific aircraft; however, two job types are different enough to warrant a brief description in addition to this subcluster description.

1. Line Supervisors Job Type (GRP533, N=61). This job type of supervisors is composed mostly of MAC (51 percent) and SAC (38 percent) personnel, with three-fourths holding a 7-skill level. They have an average of 122 months in the career field and 132 months TAFMS. With an average of 148 tasks performed and a JDI of 18.8, the addition of supervisory tasks to the required technical expertise of the job is clearly illustrated. This is one of the most difficult jobs in the career field, and one of the least satisfying. Tasks which distinguish this group from the subcluster are listed below:

supervise Aircraft Electrical Systems Specialists (AFSC 42350)
coordinate with maintenance control on maintenance activities
inspect aircraft electrical systems following maintenance
supervise Aircrft Electrical Systems Helpers (AFSC 42330)
counsel personnel on personal or military-related matters
determine work priorities
interpret policies, directives, or procedures for subordinates

2. FTD Trainers Job Type (GRP466, N=7). Six of the seven members of this job type are assigned to ATC, with the other member assigned to PACAF in some training capacity. All but one member hold a 7-skill level. The average grade is E-6, with an average of 159 months in the career field. This group performs an average of 130 tasks and has a JDI of 18.9, indicating the additional demands of their job. The satisfaction indicators are also very high. The reason these trainers broke out in this subcluster is reflected in the aircraft systems they teach and maintain. The following is a list of distinguishing tasks:

conduct field training detachment (FTD) classroom training demonstrate how to locate technical information counsel trainees on training progress procure training aids, space, or equipment administer or score tests develop course curricula, plans of instruction (POI), or specialty training standards (STS) write test questions or develop tests

Even though these job types have been specifically mentioned, the individuals are basically performing the same technical tasks that the remainder of the subcluster is performing.

C. Shift Supervisors Job Type (GRP407, N=8). The individuals in this job type call themselves Shift Supervisors. They are all assigned to SAC, and three-quarters hold a 7-skill level. The assignment to SAC is reflected in the unique aircraft they service. (As well as the basic SAC aircraft, they report maintaining the UH-1F, U-2, TR-1, or SR-71.) An average of 96 tasks and a JDI of 14.4 is reported for this job type. Some tasks that help to distinguish this group are as follows:

inspect aircraft electrical systems following
maintenance
supervise Aircraft Electrical Systems Specialists (AFS
42350)
supervise Aircraft Electrical Systems Helpers (AFSC
42330)
make entries on AFTO Forms 781 (Aerospace Vehicle Flight
Data Document)
observe in-process maintenance or make on the spot
corrections
conduct OJT
isolate malfunctions on water injection circuits
remove or install truck leveling systems

In addition to the above representative tasks, this group also performs a number of training tasks, but they report very little time doing these tasks.

D. MAC General Flightline Maintenance Personnel Job Type (GRP468, N=26). This job type of personnel is very junior, with an average time in the career field of 25 months and an average TAFMS of 31 months. The average grade is E-3, with 31 percent holding a 3-skill level. Most of the personnel are assigned to MAC (85 percent) and 88 percent are in their first enlistment. The JDI is 12.4 and the average number of tasks performed is 76, which reflects a relatively narrow job when compared with the rest of the cluster. The main aircraft serviced are the C-5A, C-141, C-130, or KC-135. A few of the most common tasks performed in this job type are given below:

isolate malfunctions on fire and overheat detection circuits inspect fire and overheat detection circuit components replace fuses, current limiters, or circuit breakers remove or install connector plugs isolate malfunctions on cargo door control and warning lights isolate malfunctions on galley or latrine electrical circuits

The tasks where 50 percent of this group's time is spent are virtually all simple, basic electrical systems maintenance tasks, as one would expect given the relatively high number of 3-skill level personnel. This group is slightly more satisfied than the average group in this career field.

E. Advanced Reconnaissance Aircraft Maintenance Personnel Job Type (GRP416, N=6). This job type contains senior-level personnel who all have a 7-skill level and an average time in the career field of 133 months. These individuals maintain a very specialized and complex group of aircraft (SR-71 or

TR-1). Tasks performed by this group average 136 with a JDI of 17.7, reflecting the complex, specialized electrical systems maintained. A selection of some distinguishing tasks are listed below:

inspect aircraft batteries
assemble or disassemble silver zinc batteries
perform solderless connector insertions or extractions
inspect shop test equipment or test stands
isolate malfunctions on fuel control warning circuits
inspect face heat system circuit components
conduct OJT

F. Basic Aircraft Electrical Systems Maintenance Personnel Subcluster (GRP349, N=73). This subcluster of aircraft electricians are servicing aircraft with basic aircraft electrical systems, such as the T-38, T-37, T-33, OV-10, or O-2A. About three-quarters are holding a 5-skill level, with most of the group in ATC (43 percent) or TAC (36 percent). The average time in the career field is 43 months, with the majority in their first enlistment and about one-third assigned to a POMO unit. The average number of tasks performed in this job type is 103 with a JDI of 13.8, which is slightly higher than normal. The following are some representative tasks performed by the individuals in this subcluster:

crimp wires to splices and terminals isolate malfunctions on exterior lighting circuits inspect electrical bonds or grounds remove or install rotating beacons, landing lights, or taxi lights clean connector plugs replace fuses, current limiters, or circuit breakers

The maintenance tasks listed above reflect the basic nature of the aircraft electrical systems maintained and the average difficulty of the jobs performed within this subcluster. There are some variations within this subcluster that are due to specific aircraft maintained.

G. C-5A Aircraft Systems Maintenance Specialists Job Type (GRP326, N=5). This job type is a group of 5-skill level personnel who are all assigned to MAC and who have an average TAFMS of 42 months. They report that the main aircraft serviced at their base of assignment is the C-5A. Because of the single aircraft serviced, these individuals perform an average of only 84 tasks and have a JDI of 12.5, which is slightly below the average job difficulty. A few of the unique tasks performed by this group are noted here:

remove or install proximity sensors
inspect ram air turbine (RAT) circuit components
bench check asymmetry and spoiler components
inspect proximity sensors
isolate malfunctions on flight control asymmetry system
circuits
isolate malfunctions on kneeling system circuits
isolate malfunctions on cargo door control and warning
circuits

These individuals are specialized on one aircraft and perform tasks that are unique to the C-5A. This lack of variety may account for the low job satisfaction reported by members of this group. One last item of interest for this group is that 60 percent report the use of a mini- and/or microcomputer in the performance of their jobs.

A summary of this cluster shows us that most of these 815 individuals report themselves as Flightline Maintenance personnel. Most of the variation throughout the cluster is due to the different aircraft serviced. When applicable, those groups that performed some unique job or that were specialized in some way were discussed separately so that a clear picture could be drawn of flightline maintenance work in the Aircraft Electrical Systems career ladder.

III. TRANSIENT AIRCRAFT MAINTENANCE PERSONNEL INDEPENDENT JOB N=61). This independent job type is a mixed group of individuals whose job is to maintain transient aircraft in addition to their assigned aircraft. The MAJCOM representation for this group is 20 percent, AFSC; 18 percent, SAC; 16 percent, ATC; 15 percent, MAC; 12 percent, TAC; 10 percent, PACAF; 5 percent, USATE; and 5 percent, other commands (an unusually heterogeneous MAJCOM representation for this career field). About 90 percent hold at least a 5-skill level and slightly more than half are in their first enlist-This group has a very broad job with an average of 282 tasks performed, which is significantly more than any other group in the career field. The JDI for this group is 22.3. The job satisfaction indicators for this group are a little above average, but reenlistment intentions are a little low. Virtually every aircraft in the USAF inventory is maintained by members of this group. A few of the most common tasks performed by this independent job type include:

isolate malfunctions on battery distribution circuits isolate malfunctions on fire and overheat detection circuits isolate malfunctions on AC generator systems fabricate wiring harnesses inspect aircraft direct current (DC) power generator circuit and distributions circuit components bench check external lighting circuit components crimp wires to splices and terminals

inspect landing gear control and warning circuit components

Not only is this group performing the same core tasks as the Flightline Maintenance cluster, but members are also performing many of the core tasks of the Troubleshooting and In-Shop Maintenance clusters. This group of specialists performs a difficult job that requires the knowledge and ability to maintain several types of aircraft at any one time. A total of 21 different aircraft are maintained by 10 percent or more of this cluster. This independent job type is one of the few groups in this career field that cuts across all MAJCOM maintenance organization boundaries.

IV. TROUBLESHOOTING AND MAINTENANCE CLUSTER (GRP249, N=200). The MAJCOM distribution for this cluster is TAC (31 percent), MAC (30 percent), SAC (21 percent), and USAFE (10 percent). Close to 60 percent of the cluster members are in their first enlistment, while the group as a whole reports an average TAFMS of 54 months. The average grade for this cluster is E-4, with 82 percent holding a 5-skill level. The average number of tasks performed by this cluster is 66, which is somewhat less than normal, and the JDI of 11.3 is a little less than average in job difficulty. Most tasks center on isolating malfunctions and general electrical systems maintenance. Some of the more common tasks performed by this cluster are:

isolate malfunctions on AC generator systems
isolate malfunctions on exterior lighting circuits
isolate malfunctions on fire and overheat detection
circuits
isolate malfunctions on internal lighting circuits
crimp wires to splices and terminals
isolate malfunctions on landing gear control and warning
circuits
isolate malfunctions on warning circuits

This group of individuals perform a somewhat specialized job that involves large amounts of time troubleshooting aircraft electrical systems. The main aircraft serviced by this cluster are the KC-135, B52G/H, C-5A. C-141, C-130, F-4E, and F-15. Two subclusters within this cluster warrant further discussion.

A. Flightline Troubleshooting Personnel Subcluster (GRP358, N=164). The major portion of the cluster members is part of this subcluster. The variations within this subcluster are due to aircraft serviced (and, consequently, MAJCOMs). The most identifying factor for this group is the great amount of time spent on flightline troubleshooting activities. Listed below are a few representative tasks:

isolate malfunctions on anti-skid circuits
isolate malfunctions on external power system circuits
isolate malfunctions on aircraft flight control circuits
solder wires to connector plugs, control boxes, or control
panels
isolate malfunctions on electrical or air operated starter
circuits
isolate malfunctions on nesa glass anti-icing circuits

This group represents the "pure" technical troubleshooters across the MAJCOM₃ listed in the cluster description. The key factor for this subcluster is the relative amount of time spent troubleshooting, in addition to the general aircraft electrical systems maintenance that is done on the flightline.

B. General Electrical Systems Maintenance and Troubleshooting Personnel Subcluster (GRP296, N=20). This subcluster is spending a large amount of time on troubleshooting tasks, but in contrast to the above subcluster this group of individuals is spending more time on general aircraft electrical systems maintenance and other duties. The MAJCOM distribution for this subcluster has TAC and USAFE with three-quarters of the personnel and MAC and AFSC with the other quarter. The average number of tasks performed drops to 52 and the JDI is down to 8.8, marking a significant decrease in job difficulty compared to the other subcluster. There is a corresponding drop in reenlistment intentions, even though other job satisfaction indicators are about the same. A few representative tasks will illustrate the difference between the two subclusters:

remove or install connector plugs
remove or install pins on connector plugs
perform TCTO modifications of aircraft electrical
systems
remove or install fire or overheat loops
inspect electrical systems for corrosion
remove or install anti-skid circuit components

More time is spent by this group on duties other than isolating malfunctions than is spent by the other subcluster, though this subcluster spends a large amount of their time performing troubleshooting activities. The variations within this subcluster revolve around other duties rather than specific aircraft, but none of them are significant enough for discussion.

V. AVIONICS MAINTENANCE SPECIALISTS INDEPENDENT JOB TYPE (GRP294, N=5). This independent job type is composed solely of MAC personnel. This junior group of personnel has an average grade of E-3 and an average of 36 months TAFMS. Four of the five are in their first enlistment with three holding a 5-skill level. The average number of tasks for this group is 70 with a

JDI of 10.4, somewhat below average in job difficulty. The aircraft serviced are somewhat unique for this group (C-9, C-140, CT-39, or C-130). The members of this job group report working in avionics maintenance shops. A few of the more common tasks performed are listed below:

adjust proximity sensors
inspect proximity sensors
remove or install proximity sensors
perform solderless connector insertions or extractions
inspect control boxes or junction boxes for burning or
chaffing
pot connectors or relays
rewire aircraft electrical systems
replace micro switches

This group of individuals is particularly specialized because of the limited number of tasks performed and the time spent maintaining proximity sensors. When these tasks are contrasted with the rest of the career field, the comparison serves to illustrate their unique job status.

VI. IN-SHOP MAINTENANCE CLUSTER (GRP224, N=142). Members of this cluster identify themselves as electrical shop personnel. Not only are they performing many general electrical systems maintenance tasks, but they are spending a unique amount of time performing in-shop related tasks. TAC (50 percent) is the largest command represented in this cluster, with USAFE (20 percent) and SAC (16 percent) being the other main commands. Conspicuously missing from this cluster are personnel assigned to MAC. The reason for MAC not being represented is the way they have organized their maintenance activities so the aircraft electrician performs many of the flightline maintenance activities while interfacing with in-shop maintenance activities to a much greater degree than the other MAJCOMs. This cluster reports an average of 97 tasks performed and have a JDI of 12.5, indicating an average job difficulty. Some of the tasks that help to distinguish this cluster are listed below:

perform capacitance tests or services on nickel-cadmium batteries maintain battery charges inspect shop test equipment of test stands perform capacitance tests on lead acid batteries bench check external lighting circuit components bench check internal lighting circuit components bench check internal lighting circuit components

This cluster has an average grade of E-4, with 60 percent in their first enlistment and an average TAFMS of 53 months. Almost half are assigned to a POMO unit, and 80 percent hold at least a 5-skill level. There are two main subclusters and three job types within the subclusters that will be briefly discussed.

A. POMO/Fighter Maintenance Personnel Subcluster (GRP252, N=103). TAC and USAFE account for almost 90 percent of this subcluster. About 85 percent hold a 5-skill level or better, with an average of 55 months TAFMS. The main aircraft serviced by this group are the RF-4C, F-4C/D/E, A-10, F-111, F-15, or F-16. The JDI for this group is 13.7 with the average number of tasks performed at 107. The following tasks are common to this subcluster:

bench check AC generators with conventional components bench check warning light circuit components isolate malfunctions on battery chargers assemble or disassemble connector plugs remove or install relays in control boxes or panels remove or install cells on nickel-cadmium batteries inspect parts received for serviceability

This group spends the greatest portion of their time in the shop environment performing shop-related tasks on fighter aircraft. Within this subcluster, there are two unique job types that are worth noting.

1. Training Center Test Equipment Maintenance Personnel Job Type (GRP517, N=6). Most of this job type are assigned to ATC, with 50 percent in their first enlistment. They service the F-5B, A-10, or the T-38. An average of 93 tasks are performed by this group and it has a JDI of 12.5. The reenlistment intention for this job type is very low, even though the other job satisfaction indicators are relatively high. A few of the unique tasks for this group are listed below:

rewire or replace components on locally manufactured test equipment isolate malfunctions on portable DC rectifiers maintain aircraft generator test stands (vari-drives) fabricate electrical leads maintain portable DC rectifiers isolate malfunctions on Aerospace Ground Equipment (AGE) electrical equipment circuits maintain battery chargers

A lot of time is spent by this group in maintenance and using test equipment, as well as performing maintenance on several aircraft systems.

- 2. Bench Checking Specialists Job Type (GRP381, N=15). This job type of individuals is unique for this career feld in the amount of time spent performing bench checking tasks. Almost all members hold a 5-skill level DAFSC, and more than 90 percent are assigned to TAC and USAFE. The average time in the career field is 37 months, with more than half of the group in their first enlistment and 80 percent assigned to a POMO unit. The average number of tasks performed by this group is 65 and the JDI is 8.7, indicating a limited, specialized job. Job satisfaction indicators are all low, reflecting the limited nature of the job. The tasks listed in the subcluster description are basically representative of this group; however, because of the specialization of this job type, personnel are spending a much greater amount of time performing those same core tasks.
- B. Non-POMO Maintenance and Inspection Personnel Subcluster (GRP254, N=32). The main MAJCOM in this subcluster is SAC with 63 percent, with the tactical forces (USAFE, PACAF, TAC, and AAC) accounting for most of the remainder. There is a relatively high number of group members in their first enlistment (72 percent), with an average time in the career field of 30 months and an average TAFMS of 46 months. The main aircraft serviced by this group are mostly the 135 class (KC/RC/EC/C-135) or the B-52G/H. The average number of tasks performed by this subcluster is 68, with a JDI of 8.7. The job satisfaction indicators were all average. Some of the regularly performed tasks are shown below:

perform capacitance tests or services on nickel-cadmium batteries remove or install anti-skid circuit components isolate malfunctions on nesa glass anti-icing systems pot conectors or relays inspect nesa glass anti-icing circuit components perform solderless connector insertions or extractions assemble or disassemble nickel-cadmium batteries

In addition to performing bench checking tasks, this groups spends a lot of time doing battery related tasks. Within this subcluster, there is one job type that spends most of their time doing battery tasks.

1. Battery Maintenance Specialists Job Type (GRP317, N=6). All of the members of this job type are assigned to the tactical forces, with 100 percent holding a 5-skill level. They are junior personnel who report an average of 25 months time in the career field. All but one are in their first enlistment and are assigned to a POMO unit. The average number of tasks performed by this group is 50 and the JDI is 6.9, all of which indicates a very easy job performing specialized tasks. (NOTE: The difference between this group and the battery maintenance cluster is the number of other maintenance tasks that are performed by this group in addition to the core battery tasks.)

The job satisfaction indicators are all relatively high. A few prominent tasks for this job type are listed below:

perform capacitance tests or services on nickel-cadmium batteries remove or install cells on nickel-cadmium batteries assemble or disassemble nickel-cadmium batteries inspect aircraft batteries clean nickel-cadmium batteries clean lead acid batteries perform capacitance tests on lead acid batteries

This group is performing battery tasks, and spend a lot of time performing them when compared to the rest of the cluster. Under the POMO system, they are a part of the in-shop activities, but they are performing a specialized and relatively easy job.

VII. TROUBLESHOOTING AND INSPECTION CLUSTER (GRP199, N=30). This cluster of personnel is virtually all in the tactical forces (TAC, 63 percent; USAFE, 27 percent; PACAF, 7 percent), with 77 percent assigned to a POMO unit. The average grade is E-4, and almost half are in their first enlistment. The JDI for this cluster is 11.0 and the average number of tasks performed is 53, indicating a specialized job. Some representative tasks for this cluster are given below:

isolate malfunctions on warning light circuits
isolate malfunctions on fire and overheat detection
circuits
inspect fire and overheat detection circuit components
isolate malfunctions on anti-skid circuits
inspect landing gear control and warning circuit
components
inspect aircraft electrical systems following maintenance
inspect electrical systems for corrosion

These individuals are performing a quality control inspection function for the troubleshooting cluster at a line maintenance level. There is a job type within this cluster that spends more time filling out maintenance forms, but they are performing essentially the same tasks as those listed for the cluster as a whole.

VIII. OVERSEAS OV-10 MAINTENANCE PERSONNEL INDEPENDENT JOB TYPE (GRP384, N=5). This independent job type is composed entirely of USAFE personnel holding a 5-skill level and who exclusively maintain the OV-10 aircraft. The average grade is E-4, with an average time in the career field of 37 months and an average TAFMS of 50 months. All are assigned to a POMO unit and report performing an average of 53 tasks. The JDI is 8.6, which indicates a fairly simple specialized job. A few of the most commonly reported tasks are listed below:

isolate malfunctions on flap and slat control and warning circuits crimp wires to splices or terminals isolate malfunctions on landing gear control and warning circuits assemble or disassemble connector plugs isolate malfunctions on internal lighting circuits remove or install rotating beacons, landing lights, or taxi lights

This group performs many of the basic maintenance tasks of this career field, but they perform those tasks strictly on the OV-10. The amount of time they spend doing those basic tasks reflects the main distinguishing factor of this independent job type.

IX. LOGISTICS SUPPORT SPECIALISTS INDEPENDENT JOB TYPE (GRP387, N=10). This independent job type is mostly PACAF, and members report themselves as working in the PACAF Logistics Support Center. All have at least a 5-skill level, with an average time in the career field of 60 months and an average TAFMS of 70 months. Forty percent are in their first enlistment and the main aircraft serviced by this independent job type are the same as those assigned to PACAF as a whole. They report performing 121 tasks on the average, and have a JDI of 16.5, which seems to indicate a broad job that is moderately difficult to perform. Members are all quite satisfied with what they are doing in their jobs. Some common tasks for this group are presented below:

bench check constant speed drive (CSD) components isolate malfunctions of constant speed drive (CSD) circuits assemble or disassemble transformer-rectifier (TR) units bench check transformer-rectifier (TR) circuit conventional components remove or install solid-state circuit boards perform soldering on solid-state circuit boards

These tasks give a flavor of what this independent job type is doing at the PACAF Logistics Support Center. They are spending slightly more time maintaining solid-state circuits and components than most of the career field. From the task listing, it appears that this group of individuals is performing a depot level maintenance function for PACAF.

X. LIGHTING AND ANTI-SKID CIRCUIT SPECIALISTS INDEPENDENT JOB TYPE (GRP305, N=5). Here is an independent job type of individuals who are spending a great amount of time maintaining lighting and anti-skid circuits. The group is mostly TAC, with 60 percent of its members assigned to a POMO unit. The average time in the career field is 43 months, with an average TAFMS of 72 months. The average number of tasks performed by this group is 23 and the JDI is 6.1, which indicates a highly specialized job but relatively simple to perform. The main tasks performed by this group are listed below:

isolate malfunctions on exterior lighting circuits isolate malfunctions on interior lighting circuits remove or install anti-skid circuit components isolate malfunctions on warning light circuits crimp wires to splices or terminals isolate malfunctions on anti-skid circuits

Because of the limited number of tasks performed by this group, the amount of time spent doing any one task is quite large. The tasks listed above represent better than 30 percent of this group's time. The main aircraft they service are the F-15, F-4C/E, or F-5A/B.

XI. <u>SUPERVISORY CLUSTER</u> (GRP098, N=129). This cluster is clearly the pure supervisory group for the 423XO career ladder, as compared to the first-line supervisors mentioned in previous job group descriptions. The average grade of this group is E-6, with the average time in the career field of 142 months and a TAFMS average of 174 months. Half report they are assigned to a POMO unit, with the MAJCOM distribution about the same as the total career field. More than three-quarters hold a 7-skill level, and almost every aircraft is maintained by some group members. The average number of tasks performed by this group is 96, with a JDI of 15.0. A few of the tasks that characterize the cluster are contained in the following list:

counsel personnel on personal or military-related matters prepare airman performance reports (APR) supervise Aircraft Electrical Systems Specialists (AFSC 42350) determine work priorities

plan or schedule work assignments indorse airman performance reports (APR)

These tasks are representative of the supervisory tasks performed by most members in the cluster. Within this job group, there are three main subclusters. No job types were identified because there were only minor variations within the subclusters; therefore, the subcluster descriptions given below will adequately describe all members and jobs within the subclusters.

A. Line and Shop NCOICs Subcluster (GRP308, N=51). This subcluster represents the most technical group of supervisors in the cluster. Members are still doing a lot of technical tasks as well as the main supervisory duties. All of the surveyed commands are represented in this subcluster in relative proportion to the career field distribution. All hold at least a 5-skill level, with almost 80 percent holding a 7-skill level. The average time in the career field is 146 months, with the average TAFMS being 169 months. About half report being assigned to a POMO unit and have an average grade of E-6. The main aircraft serviced by this group are the KC-135, B-52G/H, F-111, F-16, EC-135, C-130, or UH-1N. An average of 150 tasks are performed, with a JDI of 18.5, which illustrates the addition of the supervisory tasks to the regular technical expertise required. Some of the more common tasks for this subcluster are listed below:

supervise Aircraft Electrical Systems Specialists (AFSC 42350)
determine work priorities
inspect aircraft batteries
inventory equipment, tools, or supplies
develop shop test equipment or test stands
inspect aircraft electrical systems following
maintenance

These NCOs are involved in all aspects of shop operation as can be seen by the tasks listed above. Most of the technical tasks are still performed, but the preponderance of time is spent performing supervisory tasks.

B. Branch and Senior NCOICs Subcluster (GRP165 N=41). Of all the groups identified in this occupational survey report, this subcluster is the most senior, with an average grade of E-7 and an average time in the career field of 164 months and 198 months average TAFMS. USAFE and TAC account for nearly 50 percent of this subcluster, with MAC, SAC, AFSC, and ATC using 10 percent each and PACAF with 5 percent. Just about half are assigned to a POMO unit, and almost 90 percent hold a 7-skill level. Of the supervisory groups, this group has the highest percentage of individuals who are not currently maintaining any aircraft systems, the others report maintaining the A-10, C-5A, C-135, or KC-135. The average number of tasks performed is 58 and the JDI is 13.5, indicating the loss of the technical tasks to the demands of the supervisory responsibilities. A few of the tasks common to this subcluster are listed below:

interpret policies, directives, or procedures for subordinates draft correspondence evaluate inspection reports or procedures assign personnel to duty positions determine requirements for personnel schedule leaves or passes analyze workload requirements

In the write-in comments, many members of this subcluster identified themselves as branch-level managers. The nature of the tasks listed above indicates the senior level of responsibility given to these NCOs. Almost all of the tasks they perform are administrative in nature.

C. Specialist Flightline Supervisors Subcluster (GRP123, N=35). This subcluster is composed of supervisors who are responsible for the maintenance activities of several AFSCs in aircraft maintenance operations. They all hold at least a 5-skill level and have an average grade of E-6. The average TAFMS is 158 months and the average time in the career field is 115 months. Slightly more than half are assigned to a POMO unit, with 37 percent assigned to TAC, 14 percent to USAFE, 26 percent to MAC, and 6 percent each to SAC, ATC, and PACAF. The main aircraft serviced by this group are the F-15, A-10, C-130, or C-5A. The JDI is 11.3, with the average number of tasks performed reported at 56, indicating the loss of aircraft electrical systems maintenance responsibilities to the general maintenance function they perform. Some of the tasks that take up so much of their time are identified below:

supervise Aircraft Electrical Systems Specialists (AFSC 42350)
supervise personnel other than AFSC 423X0
counsel personnel on personal or military-related
matters
plan or schedule work assignments
supervise Aircraft Electrical Systems Helpers
(AFSC 42330)
supervise Aircraft Electrical Systems Technicians
(AFSC 42370)
prepare airman performance reports (APR)

Many in this subcluster identified themselves as Specialist Flightline Supervisors who are not only monitoring the aircraft electrical systems maintenance, but who are also supervising the maintenance activities of personnel in AFSCs other than 423XO.

XII. QUALITY CONTROL INSPECTORS CLUSTER (GRP094, N=20). Here is a cluster of individuals who are performing a large number of inspection tasks and are generally monitoring the aircraft electrical maintenance being done. The average grade is E-6, with 85 percent holding a 7-skill level and an average TAFMS of 138 months. SAC is the major user with 45 percent, ATC uses 25 percent, and both MAC and PACAF use 10 percent. Over 65 percent report they currently do not maintain any aircraft electrical systems. The average number of tasks performed is 56, with a JDI of 11.5, which is consistent with the observational, quality control nature of this cluster's responsibilities. Some of the tasks that help to distinguish this cluster are listed below:

inspect aircraft electrical systems following maintenance inspect electrical systems for corrosion observe in-process maintenance or make on the spot corrections perform special inspections of aircraft electrical systems perform maintenance activity inspections or self-inspections evaluate compliance with work standards evaluate maintenance and use of workspace, equipment, or supplies demonstrate how to locate technical information

Most of this cluster's time is centered around quality control activities. Most members report their current job title as being quality control specialists. There are two job types within the cluster. The first is a senior group of technicians who are performing essentially the same tasks as identified in the cluster description given above, yet they are spending slightly more time on fewer tasks. The second job type is discussed below.

B. FTD Instructors and Inspectors Job Type (GRP421, N=5). This group of FTD Instructors grouped with the quality control cluster due to the performance of the same inspection and quality control tasks performed in the training environment. All of these individuals are assigned to ATC, and they are teaching SAC aircraft electrical systems. They are all 7-skill levels with an average of 175 months in the career field and 185 months average TAFMS. The JDI for this job type is 13.7, with the average number of tasks performed, 74. A few of the tasks that distinguish this job type are listed below:

conduct field training detachment (FTD) classroom training demonstrate how to locate technical information develop course curricula, plans of instruction (POI), or specialty training standards (STS) administer or score tests

procure training aids, space, or equipment maintain training records, charts, or graphs

As well as the FTD training, members also perform essentially the same quality control tasks as the rest of the cluster, in the course of the training given.

XIII. <u>DEPOT LEVEL MAINTENANCE CLUSTER (GRP065, N=31)</u>. This group is unique to the type of maintenance performed. The tasks are relatively simple technical tasks, but the time spent on basic aircraft electrical systems maintenance is tremendous when compared to the rest of the career field. Slightly more than half are assigned to AFLC, with 32 percent assigned to MAC. The average TAFMS is 59 months, with about 45 percent of the group's members in their first enlistment and 71 percent holding a 5-skill level. The average number of tasks performed is 36 and the JDI is a low 6.2, indicating a very simple, specialized job. Some of the tasks common to this cluster are listed below:

remove or install connector plugs
perform TCTO modifications of aircraft electrical
systems
rewire aircraft electrical systems
fabricate wiring harnesses
fabricate compact wire bundles
perform proto-type compliance technical orders
(TCTO)
fabricate electrical leads

The list could continue, but the main idea of the depot level maintenance activities of this cluster is clearly illustrated by the tasks listed above. There are two job types within this cluster that merit further discussion.

A. Solid-State Component and Test Equipment Maintenance Personnel Job Type (GRP207, N=5). This small group of unique individuals is spending a great amount of time performing tasks that deal with solid-state equipment maintenance. Most members are assigned to MAC, with 80 percent holding a 5- or 7-skill level. The main aircraft serviced are both the C-141 and the C-5A. The JDI for this group is 10.4, with 65 as the average number of tasks performed. A couple of the job satisfaction indicators are low, especially the use of training indicators. Some of the tasks that help make this group unique are listed below:

remove or install solid-state components on printed circuit boards remove or install resistors or capacitors on solid-state circuit boards

perform soldering on solid-state circuit boards remove or install solid-state circuit boards bench check AC control panel solid-state components clean internal parts of control boxes assemble or disassemble control boxes inspect shop test equipment or test stands

This group reports spending slightly more than average amount of time maintaining test equipment. As can be seen from the above list of tasks, a significant portion of their time is spent performing tasks that deal with solid-state technology.

B. General Aircraft Electrical Systems Maintenance Personnel Job Type (GRP261, N=11). This job type is composed solely of AFLC assigned personnel. The average grade for this group is E-4, with all of them holding at least a 5-skill level and an average time in the career field of 52 months. Nearly half are in their first enlistment and they report servicing the A-10, F-4C/D/E, F-16, F-111, or RF-4C. The average number of tasks performed is 39 with a JDI of 7.3, possibly accounting for the lower-than-normal job satisfaction indicators. The main tasks performed by this job type are listed below:

perform TCTO modifications of aircraft electrical systems crimp wires to splices and terminals rewire aircraft electrical systems remove or install pins on connector plugs fabricate wiring harnesses perform proto-type time compliance technical orders (TCTO)

As can be seen, many of the tasks listed here are the same as those listed for the cluster. The major difference between this job type and the whole cluster is the amount of time spent performing fewer tasks within this job type, thus indicating a more specialized job group than the cluster.

XIV. LINE QUALITY CONTROL PERSONNEL INDEPENDENT JOB TYPE (GRP233, N=5). This independent job type is a mixed group of MAJCOMs (TAC, AFLC, AFSC, ATC) who report working with virtually every fighter aircraft in the USAF inventory. The average grade for this group is E-5, with an average TAFMS of 104 months. Members report an average of 12 tasks performed and a JDI of 5.0. Though these may seem low, the nature of the job seems to indicate the need for a high degree of technical expertise. The job satisfaction indicators are about average for this career field. The tasks that serve to distinguish this independent job type are given below:

inspect electrical systems for corrosion inspect electrical systems following maintenance

perform maintenance activity inspections or selfinspections observe in-process maintenance or make on the spot corrective actions perform special inspections on aircraft electrical systems

Just the tasks listed above account for better than 50 percent of this group's time, indicating the highly specialized nature of this job and the close association with the line maintenance personnel.

- XV. TRAINER CLUSTER (GRP029, N=40). This cluster of individuals is mostly composed of ATC instructors who are performing various training functions. Most of them report they are currently maintaining no aircraft electrical systems. At least a 5-skill level is held by everyone in the group and the average grade is E-6. The average time in the service is 136 months and the average TAFMS is 144 months. The average number of tasks performed is 22 with a JDI of 11.1, indicating the specialized nature of the training function. Rather than list any specific tasks performed by the cluster as a whole, it will be more useful to list specific tasks performed by the two subclusters discussed below.
- A. FTD Instructors Subcluster (GRP073, N=18). The major tasks of this subcluster are the conducting of FTD training activities. The major commands are ATC with 94 percent and AFLC with 6 percent. The member of this group who is not assigned to ATC reports performing a field training function for AFLC. Almost 90 percent are holding a 7-skill level, with an average TAFMS of 180 months. The average number of tasks performed is 29 with a JDI of 11.4. This is a highly satisfied group of NCOs. Some of the distinguishing tasks performed by this group are listed below:

conduct field training detachment (FTD) classroom training demonstrate how to locate technical information maintain technical order (TO) files or TO compliance records develop course curricula, plans of instruction (POI), or specialty training standards (STS) counsel trainees on training progress establish or maintain study reference files

B. In-Residence Training Instructors Subcluster (GRP120, N=16). This subcluster of personnel has a slightly lower experience level than the other subcluster. The average grade is E-5, with 70 percent holding a 5-skill level and the rest holding a 7-skill level. The average time in the career field is 82 months and the average TAFMS is 87 months. ATC represents about 75

percent of this group, while MAC represents about 20 percent. Members of this subcluster who are not assigned to ATC all report performing training duties as their main job. Most of the subcluster members do not maintain any aircraft electrical systems. Almost 40 percent are in their first enlistment, report performing an average of 19 tasks, and have a JDI of 10.0. Some distinguishing tasks performed by this group are listed below:

conduct resident course classroom training administer or score tests maintain training records, charts, or graphs counsel trainees on training progress evaluate progress of resident course students counsel personnel on personal or military-related matters write test questions or develop tests

The resident nature of this subcluster is reflected in the kinds of tasks performed, especially the personal counseling given to the trainees. There is an identified job type within this subcluster, but a description of it would not be useful since the tasks are essentially the same as this subcluster. The job type is just slightly more specialized by time spent on the tasks above than the rest of the subcluster.

XVI. MAINTENANCE CONTROL AND SCHEDULING CLUSTER (GRP015, N=26). This last cluster of personnel is a diverse group of individuals who are performing quite different jobs, but who are spending a lot of their time performing some common tasks. They are a senior group of people with an average grade of E-6, an average time in the career field of 157 months, and an average TAFMS of 174 months. The major commands are: MAC (27 percent); SAC and TAC (23 percent each) and USAFE (19 percent). The average number of tasks performed is 14, with a JDI of 7.5. They are a relatively satisfied group of supervisors. Some of the common tasks performed by the cluster are listed below:

coordinate with maintenance control on maintenance activities determine work priorities direct maintenance or utilization of equipment supervise personnel other than AFSC 423XO plan or schedule work assignments direct development or maintenance of status boards, graphs, or charts

These are some of the common core of tasks performed by the cluster as a whole. Many of the members of this cluster call their current job title either maintenance control or maintenance scheduling. There is one job type in the cluster that will be briefly discussed.

A. Schedulers Job Type (GRP323, N=5). This job type has an average grade of E-6 and contains representatives from MAC, USAFE, SAC, and TAC. Eighty percent hold a 7-skill level, with an average time in the career field of 181 months and an average TAFMS of 196 months (one of the most senior groups in the career field). The average number of tasks performed is 15, with a JDI of 7.4, indicating a narrow, specialized job. A listing of the core tasks performed by this job type is given below:

direct development or maintenance of status boards, graphs, or charts coordinate with maintenance control on maintenance activities coordinate with material control on cannibalization of parts evaluate alert or emergency procedures determine work priorities analyze workload requirements plan or schedule work assignments determine requirements for personnel

The time spent on these core tasks illustrates why they are called Schedulers. The maintenance performed is determined by the Schedulers whose job it is to establish work priorities. Very little, if any, technical work is performed in this job type.

Comparison of Specialty Jobs

Analysis of the 423XO career ladder structure indicates the career ladder is very similar. There are 49 tasks that are performed by 50 percent or more of the career field members. The two major divisions in this AFSC are the applied and administrative functions.

Within the applied functional area are all of the technical maintenance activities, such as flightline maintenance, battery shop, troubleshooting maintenance, in-shop maintenance, depot level maintenance, and most of the independent job types. Within these subdivisions there are variations based on the aircraft serviced or the technical specialty assigned.

The administrative functional area is composed of such areas as supervisory, quality control, inspectors, trainers, and maintenance control and scheduling. Most of the variations within these administrative subdivisions are based on specific maintenance support activities.

Of the functional areas, the applied is by far the largest with 1,353 personnel or 76 percent of the total sample, while the administrative contains 231 individuals or 13 percent of the total sample. (NOTE: 12 percent of the total sample did not fall into any of the job groupings.)

As well as looking at the functional divisions, another way of comparing the specialty job groups is by looking at the job difficulty index (JDI). The JDI ranged from a low of 3.0 (battery shop) to a high of 22.3 (transient aircraft maintenance), with the average of the career field set at 13.0. Most of the line supervisors throughout the career ladder structure report a higher than average JDI (around 18.0), while the limited specialty jobs (like the battery maintenance and depot maintenance) reported a lower than average JDI (average of about 7.0). Finally, most of the technical jobs (such as flightline maintenance, in-shop maintenance, and troubleshooting maintenance) are reporting jobs that are about average in job difficulty.

In addition to comparing the specialty jobs by functional areas or by the JDI, we can also look at some selected background information and job attitudes. Table 5 gives a demographic look at the job groupings, while Table 6 shows that the career field, as a whole, is relatively satisfied with its current job. There are a few job groups that report dissatisfaction with their jobs, such as the battery shop and the depot maintenance personnel. The groups with a lot of responsibility and/or a broad technical job, like the FTD Trainers or the Line Supervisors, are the most satisfied.

Reenlistment intentions generally were high, with 65 percent of the total sample definitely planning to reenlist. The groups who showed the lowest reenlistment rates were either the dissatisfied groups mentioned above or some of the senior level job groupings that have a large number of members eligible for retirement. Overall, there appears to be a correlation between the level of responsibility and the technical demands of the job--and the job satisfaction and reenlistment indicators.

In summary, the career field members appear to be satisfied with their current job assignment, and the jobs they perform are organized into a structure that seems to be working well for the 423XO career ladder.

TABLE 5 SELECTED BACKGROUND DATA FOR CAREER LADDER SPECIALTY JOB GROUPS

						FLIGHTLINE		
	FLIGHTLINE	FLIGHTLINE		JOB TYPES	į	NON-POMO	JOB TYPES	SES
	MAINT CLUSTER (GRP260)	POMO PERS SUBCLUSTER (GRP382)	DEPOT-LEVEL MAINT PERS (GRP612)	SHIFT SUPERVISORS (GRP499)	OJT TRAINERS (GRP478)	PERSONNEL SUBCLUSTER (GRP399)	LINE SUPERVISORS (GRP533)	FTD TRAINERS (GRP466)
NUMBER IN GROUP	815	311	ν.	18	S.	379	61	7
PERCENT OF TOTAL SAMPLE	45%	17%	•	1%	r	21%	3%	ı
PERCENT IN CONUS	78%	72%	80%	72%	80%	82%	77%	57%
PERCENT OVERSEAS	22%	28%	20%	28%	20%	18%	23%	43%
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1				1	1	1
DAFSC DISTRIBUTION (PERCENT)								
42330	80	œ	•	ı	•	10	ι	1
42350	65	65	80	20	80	58	56	14
42370	27	27	50	20	20	32	74	98
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1	1	1 1	1	1	1
AVERAGE GRADE	E-4	E-4	E-5	E-5	E-5	E-4	E-5	E-6
AVERAGE TICF (MONTHS)	61	59	85	107	72	89	122	159
AVERAGE TAFMS (MONTHS)	72	7.1	94	128	84	78	132	162
PERCENT IN FIRST-ENLISTMENT	47%	45%	•	9 %	ı	35%	3 9	•
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1 1	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1
AVG NUMBER OF TASKS PERFORMED	112	94	86	76	97	131	148	130
JOB DIFFICULTY INDEX (JDI) AVERAGE JDI = 13.0)	15.4	14.1	14.2	12.6	14.9	17.0	18.8	18.9

TABLE 5 (CONTINUED) SELECTED BACKGROUND DATA FOR CAREER LADDER SPECIALTY JOB GROUPS

	SHIFT SUPERVISORS (GRP407)	MAC GEN FLIGHTLINE MAINT PERS (GRP468)	ADV RECON ACFT MAINT PERSONNEL (GRP416)	BASIC ACFT ELEC SYS MAINT PERS SUBCLUSTER (GRP349)	C-5A ACFT SYS MAINT SPECIALISTS (GRP326)	BATTERY SHOP CLUSTER (GRP091)	TRANSIENT AIRCRAFT MAINT PERS IJT (GRP346)
NUMBER IN GROUP	∞	56	9	73	2	80	61
PERCENT OF TOTAL SAMPLE	,	1%	•	84	t	44	က
PERCENT IN CONUS	75%	92%	•	888	100%	75%	80
PERCENT OVERSEAS	25%	88	100%	12%	•	25%	20
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	; ; ;	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1 3 1
DAFSC DISTRIBUTION (PERCENT)							
42330	•	31	1	11	20	39	10
42350	25	99	ı	75	80	26	29
42370	75	4	100	14	•	S	23
	6 1 3 1 1	, 1 1 2 2	1 1 1 .	1 1 1 1 1	1 1 1	1	1 1 1 1 1 1
AVERAGE GRADE	E5	E-3	E-6	E-4	E-4	E-4	E-4
AVERAGE TICF (MONTHS)	105	25	133	43	38	33	63
AVERAGE TAFMS (MONTHS)	114	31	140	52	42	47	7.1
PERCENT IN FIRST-ENLISTMENT	1	88 %		209	80%	65%	26%
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1	1 1 1	1 1 1	1	1
AVG NUMBER OF TASKS PERFORMED	96	76	136	103	84	33	282
JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI = 13.0)	14.4	12.4	17.71	13.8	12.5	3.0	22.3

TABLE 5 (CONTINUED)
SELECTED BACKGROUND DATA FOR CAREER LADDER SPECIALTY JOB GROUPS

	TROUBLESHOOTING AND MAINTENANCE CLUSTER (GRP249)	FLIGHTLINE TROUBLESHOOTING PERSONNEL SUBCLUSTER (GRP358)	GEN ELEC SYS MAINT & TROUBLESHOOTING PERSONNEL SUBCLUSTER (GRP296)	AVIONICS MAINT SPECIALISTS IJT (GRP294)	TROUBLE- SHOOTING AND INSPECTION CLUSTER (GRP199)	OS OV-10 MAINT PERSONNEL IJT (GRP384)	LOGISTICS SUPPORT SPECIALISTS IJT (GRP387)	LIGHTING & ANTI-SKID CIR SPECIALISTS IJT (GRP305)
NUMBER IN GROUP	200	164	20	r.	30	2	10	S
PERCENT OF TOTAL SAMPLE	11%	*6	1%	•	2%	3-Q 	1%	,
PERCENT IN CONUS	72%	70%	75%	100%	63%	•	10%	%09
PERCENT OVERSEAS	28%	30%	25%	ı	37%	100%	% 06	40%
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1		1 1 1 1	•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1
DAFSC DISTRIBUTION								
42330	ထ	6	2	40	17	•	,	20
42350	82	82	06	9	29	88	70	80
42370	11	10	2	•	17	20	30	ı
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1		
AVERAGE GRADE	E-4	E-4	E-4	E-3	E-4	E-4	E-4	E-4
AVERAGE TICF	45	44	47	31	48	37	90	43
AVERAGE TAFMS	54	52	57	36	29	20	70	72
PERCENT IN FIRST-ENLISTMENT	58%	51%	40%	80%	47%	209	40%	40%
AVG NUMBER OF TASKS PERFORMED	19		52	70	1 1 1 2 2 3 3 1 1	53	121	23
JOB DIFFICULTY INDEX (JDI)(AVERAGE JDI = 13.0)	AGE JOI = 13.0)	11.3	11.5	8.8	10.4	11.0	8.6	16.5 6.1

TABLE 5 (CONTINUED)
SELECTED BACKGROUND DATA FOR CAREER LADDER SPECIALTY JOB GROUPS

			, act	7.050	NON-POMO	100 TVDC	
	IN-SHOP MAINT CLUSTER (GRP224)	POMO/FTR MAINT PERS SUBCLUSTER (GRP252)	TNG CEN TEST EQUIP MAINT PERS (GRP517)	BENCH CHECKING SPECIALISTS (GRP381)	& INSP PERSONNEL SUBCLUSTER (GRP254)	BATTERY MAINT SPECIALISTS (GRP317)	LINE QC PERSONNEL IJT (GRP233)
NUMBER IN GROUP	142	103	9	15	32	9	2
PERCENT OF TOTAL SAMPLE	8%	%9	•	1%	2%	•	i
PERCENT IN CONUS	73%	74%	£29	53%	72%	33%	100%
PERCENT OVERSEAS	27%	26%	33%	47%	28%	67%	•
	1	,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DAFSC DISTRIBUTION (PERCENT)							
42330	19	14	33	7	38	•	50
42350	72	76	20	93	09	100	40
42370	6	11	17	•	ო	•	40
	1 1 1 1	1	1	1 1	1	1	: : :
AVERAGE GRADE	E-4	E-4	E-4	E-4	E-4	E-3	E-5
AVERAGE TICF (MONTHS)	39	41	36	37	30	52	89
AVERAGE TAFMS (MONTHS)	53	55	42	55	46	38	104
PERCENT IN FIRST-ENLISTMENT	59%	55%	20%	209	72%	83%	20%
	1 1 1		1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
AVG NUMBER OF TASKS PERFORMED	46	107	93	92	89	20	12
JOB DIFFICULTY INDEX (JDI)(AVERAGE JDI = 13.0)	12.5	13.7	12.5	8.7	8.7	6.9	5.0

TABLE 5 (CONTINUED) SELECTED BACKGROUND DATA FOR CAREER LADDER SPECIALTY JOB GROUPS

			SUBCLUSTERS			
	SUPERVISORY CLUSTER (GRP098)	LINE & SHOP NCOICS (GRP308)	BRANCH & SR NCOICS (GRP165)	SPECIALIST FLIGHTLINE SUPERVISORS (GRP123)	QC INSPECTORS CLUSTER (GRP094)	JOB TYPE FTD INSTRUCTORS & INSPECTORS (GRP421)
NUMBER IN GROUP	129	51	41	35	20	2
PERCENT OF TOTAL SAMPLE	7%	3%	2%	2%	1%	ı
PERCENT IN CONUS	70%	% 69	289	71%	70%	1001
PERCENT OVERSEAS	30%	31%	32%	29%	30%	1
		•	1 1 1 1 1	1 1 1	1 1 1 1	1
DAFSC DISTRIBUTION (PERCENT)						
42330	ı	•	•	•	,	•
42350	21	22	7	37	15	•
42370	7.7	78	88	63	82	100
	1 1 1 1	1 1	•	1	1	
AVERAGE GRADE	E-6	E-6	E-7	E-6	E-6	E-6
AVERAGE TICF (MONTHS)	142	146	164	115	129	175
AVERAGE TAFMS (MONTHS)	174	169	198	158	138	185
PERCENT IN FIRST-ENLISTMENT	1	ı	34 34	3%	10%	ı
AND MINISTER OF TROOPS	1 1 1	1 1 1 1	1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AVG NUMBER OF LASAS PERFURMED	95	150	28	26	26	74
JOB DIFFICULTY INDEX (JDI)(AVERAGE JDI = 13.0)	15.0	18.5	13.5	11.3	11.5	13.7

TABLE 5 (CONTINUED)

SELECTED BACKGROUND DATA FOR CAREER LADDER SPECIALTY JOB GROUPS

		J08						
	DEPOT LVL MAINT	SOLID-STATE COMPONENT & TEST EQUIP	GEN ACFT ELEC SYS MAINT	TRAINER	SUBCLUSTERS IN-R FTD TRAI	IN-RES TRAINING	MAINT CONTR & SCHED	JOB TYPE
	CLUSTER (GRP065)	MAINT PERS (GRP207)	PERSONNEL (GRP261)	CLUSTER (GRP029)	INSTRUCTORS (GRP073)	്ഥവ	CLUSTER (GRP015)	SCHEDULERS (GRP323)
NUMBER IN GROUP	. 31	25	11	40	18	16	56	ស
PERCENT OF TOTAL SAMPLE	5%	ı	1%	2%	1%	1%	1%	•
PERCENT IN CONUS	93%	100%	100%	95%	100%	86%	% 69	40%
PERCENT OVERSEAS	3%	1	ı	5%	•	13%	31%	%09
	1 1 1 1	1	1	; ; ;		1	1 1 1	
DAFSC DISTRIBUTION								
42330	16	20	•	•	•	•	4	•
42350	11	40	91	35	11	69	19	20
42370	13	40	6	65	88	31	73	80
	! ! !	t t t	1 1 1	1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1
AVERAGE GRADE	E-4	E-4	E-4	E-6	E-6	E-5	E-6	E-6
AVERAGE TICF	47	99	25	136	171	82	157	181
AVERAGE TAFMS	59	76	26	144	80	88	174	196
PERCENT IN FIRST-ENLISTMENT	45%	40%	45%	15%	•	38%	45%	•
	1 1 1 1 1 1		1 1 1	1 1 1		1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AVG NUMBER OF TASKS PERFORMED	36	92	39	22	29	19	14	15
JOB DIFFICULTY INDEX (JDI) (AVERAGE JDI	[= 13.0)	6.2	10.4	7.3	11.1	11.4	10.0	7.5 7.4

TABLE 6

CONPARISON OF JOB SATISFACTION INDICATORS FOR CAREER LADDER SPECIALTY JOB GROUPS

	FLIGHTLINE MAINT CLUSTER (GRP260)	FLIGHTLINE POMO PERS SUBCLUSTER (GRP382)	DEPOT-LEVEL MAINT PERS (GRP612)	SHIFT SUPERVISORS (GRP499)	OJT TRAINERS (GRP478)	FLIGHTLINE NON-POMO PERSONNEL SUBCLUSTER (GRP399)	LINE SUPERVISORS (GRP533)	FTD TRAINERS (GRP466)
EXPRESSED JOB INTEREST:								
DULL	9	œ	ı	9	20	4	7	•
80-50	14	15	20	17	20	11	16	•
INTERESTING	62	78	09	78	09	82	82	100
PERSEIVED UTILIZATION OF TALENTS:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LITTLE OR NOT AT ALL	16	18	•	17	40	12	15	•
FAIRLY WELL TO PERFECTLY	84	81	100	83	09	87	82	98
PERCEIVED UTILIZATION OF TRAINING:	1 1 1 1 1 1 1	1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1		1 1 1
LITTLE OR NOT AT ALL	16	18	ı	33	40	12	12	•
FAIRLY WELL TO PERFECTLY	84	82	100	29	09	87	88	100
SENSE OF ACCOMPLISHMENT FROM JOB:					1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1
DISSATISFIED	12	12	ı	22	20	11	10	•
80-80	6	11	•	11	20	œ	80	•
SATISFIED	78	78	100	29	09	80	82	100
REENLISTMENT INTENTIONS:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 1	1 1 1 1 1 1		1 1 1 1
PLAN TO RETIRE	2	ю	•	9	٠	2	m	•
NO, CR PROBABLY NO	28	31	20	1	20	23	7	14
YES, OR PROBABLY YES	70	99	80	94	80	74	88	98

TABLE 6 (CONTINUED)

COMPARISON OF JOB SATISFACTION INDICATORS FOR CAREER LADDER SPECIALTY JOB GROUPS

	SHIFT SUPERVISORS (GRP407)	MAC GEN FLIGHTLINE MAINT PERS (GRP468)	ADV RECON ACFT MAINT PERSONNEL (GRP416)	BASIC ACFT ELEC SYS MAINT PERS SUBCLUSTER (GRP349)	C-5A ACFT SYS MAINT SPECIALISTS (GRP326)	BATTERY SHOP CLUSTER (GRP091)	TRANSIENT AIRCRAFT MAINT PERS IJT (GRP346)
EXPRESSED JOB INTEREST:							
סחדר	•	4	ı	12	20	18	2
80-80	13	19	1	16	40	11	15
INTERESTING	88	11	100	70	40	69	79
PERCEIVED UTILIZATION OF TALENTS: LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY	100	19	100	21 21 80	60 4	33	13 85
PERCEIVED UTILIZATION OF TRAINING:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15	1 1 1 1	25	20	26	1 81
FAIRLY WELL TO PERFECTLY	100	85	100	74	80	74	80
SENSE OF ACCOMPLISHMENT FROM JOB:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DISSATISFIED	13	4	ı	21	40	22	22
80-80	13	80	•	7	20	11	22
SATISFIED	75	98	100	73	20	64	56
REENLISTMENT INTENTIONS:	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			1	1 1 1
PLAN TO RETIRE		•	•	•	•		ı
NO, OR PROBABLY NO	38	31	17	36	09	41	67
YES, OR PROBABLY YES	63	69	83	64	40	26	33

TABLE 6 (CONTINUED)

COMPARISON OF JOB SATISFACTION INDICATORS FOR CAREER LADDER SPECIALTY JOB GROUPS

	TROUBLE- SHOOTING MAINTENANCE CLUSTER (GRP249)	FLIGHTLINE TROUBLE- SHOOTING PERSONNEL SUBCLUSTER (GRP 358)	GEN ELEC SYS MAINT & TROUBLE- SHOOTING PERS SUBCLUSTER (GRP296)	AVIONICS MAINT SPECIALISTS IJT (GRP294)	TROUBLE- SHOOTING AND INSPECTION CLUSTER (GRP199)	OS OV-10 MAINT PERSONNEL IJT (GRP384)	LOGISTICS SUPPORT SPECIALISTS 1JT (GRP387)	LIGHTING AND ANTI-SKID CIF SPECIALISTS IJT (GRP305)
EXPRESSED JOB INTEREST:		:	:					
DULL	6	œ	10	20	13	,	1	20
80-80	17	17	20	20	20	40	30	} '
INTERESTING	74	74	70	09	29	09	70	80
PERCEIVED UTILIZATION OF TALENTS:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	† † † † †
LITTLE OR NOT AT ALL	21	18	30	40	23	•	1	20
FAIRLY WELL TO PERFECTLY	79	81	70	09	77	100	100	80
PERCEIVED UTILIZATION OF TRAINING:	1 1 1 1	; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1
LITTLE OR NOT AT ALL	15	15	10	,	23	40	•	20
FAIRLY WELL TO PERFECTLY	85	82	06	100	77	09	100	80
SENSE OF ACCOMPLISHMENT FROM JOB:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1
DISSATISFIED	15	15	15	20	23	20	10	•
80-80	10	œ	15	,	70	•	10	09
SATISFIED	75	7.7	70	80	57	80	80	40
REENLISTMENT INTENTIONS:	1		1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1
PLAN TO RETIRE	-	-	•	ı	O.	•	•	•
	٠ ;	• ;	;		2 :	' ;	' ;	٠ ;
NO, OR PROBABLY NO	32	34	45	09	27	20	90	50
YES, OR PROBABLY YES	62	63	55	40	63	80	70	80

TABLE 6 (CONTINUED)

COMPARISON OF JOB SATISFACTION INDICATORS FOR CAREER LADDER SPECIALTY JOB GROUPS

	IN-SHOP MAINT	POMO/FTR Maint Pers	TNG CEN TEST EQUIP	BENCH CHECKING	NON-POMO MAINT & INSP PERSONNEL	BATTERY	LINE QC PERSONNEL	
	CLUSTER (GRP224)	SUBCLUSTER (GRP252)	MAINT PERS (GRP517)	SPECIALISTS (GRP381)	SUBCLUSTER (GRP254)	SPECIALISTS (GRP317)	IJT (GRP233)	
EXPRESSED JOB INTEREST:								
	6	6	1	40	13	17	40	
	16	18	17	7	9	17	ı	
INTERESTING	75	73	83	53	81	29	09	
PERCEIVED UTILIZATION OF TALENTS:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
LITTLE OR NOT AT ALL	20	23	17	47	6	17	40	
FAIRLY WELL TO PERFECTLY	80	11	83	53	91	83	09	
PERCEIVED UTILIZATION OF TRAINING:	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
LITTLE OR NOT AT ALL	18	18	ı	33	19	17	40	
FAIRLY WELL TO PERFECTLY	82	83	100	29	81	83	09	
SENSE OF ACCOMPLISHMENT FROM JOB:	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·			1
DISSATISFIED	20	19	17	40	22	17	40	
	7	9	17	ı	13	ı	•	
SATISFIED	73	74	89	09	99	83	09	
REENLISTMENT INTENTIONS:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1	; ; ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
PLAN TO RETIRE	2	е	ı	7	•	•	0	
NO, OR PROBABLY NO	53	26	29	47	38	33	20	
YES, OR PROBABLY YES	89	70	33	43	63	29	80	

TABLE 6 (CONTINUED)

COMPARISON OF JOB SATISFACTION INDICATORS FOR CAREER LADDER SPECIALTY JOB GROUPS

	SUPERVISORY CLUSTER (GRP098)	LINE & SHOP NCOICS (GRP308)	BRANCH & SR NCOICs (GRP165)	SPECIALIST FLIGHTLINE SUPERVISORS (GRP123)	QC INSPECTORS CLUSTER (GRP094)	FTD INSTRUCTORS & INSPECTORS (GRP421)
EXPRESSED JOB INTEREST:						
DULL	15	18	15	11	2	•
20-20	10	16	•	14	25	,
INTERESTING	74	<i>L</i> 9	98	74	70	100
PERCEIVED UTILIZATION OF TALENTS:	\$ 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 5 1	1 1 1 1 1 1 1 1 1
LITTLE OR NOT AT ALL	17	20	12	20	52	
FAIRLY WELL TO PERFECTLY	81	80	83	80	75	100
PERCEIVED UTILIZATION OF TRAINING:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LITTLE OR NOT AT ALL	24	53	11	26	5	•
FAIRLY WELL TO PERFECTLY	75	69	83	74	92	100
SENSE OF ACCOMPLISHMENT FROM JOB:	1 1 1 1 1	1 1 1	1 1 1	1 1 1	1 1 1 1 1 1 1	t t t t
DISSATISFIED	23	28	22	20	15	•
80-80	11	16	2	14	10	•
SATISFIED	99	22	92	99	75	100
REENLISTMENT INTENTIONS:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 1 1
PLAN TO RETIRE	19	28	15	11	10	40
NO, OR PROBABLY NO	15	14	12	20	15	,
YES, OR PROBABLY YES	29	59	73	69	75	09

TABLE 6 (CONTINUED)

COMPARISON OF JOB SATISFACTION INDICATORS FOR CAREER LADDER SPECIALTY JOB GROUPS

	DEPOT LVL MAINT CLUSTER (GRP065)	SOLID-STATE COMPONENT & TEST EQUIP MAINT PERS (GRP2O7)	GEN ACFT ELEC SYS MAINT PERSONNEL (GRP261)	TRAINER CLUSTER (GRP029)	FTD INSTRUCTORS (GRPO73)	IN-RES TRAINING INSTRUCTORS (GRP120)	MAINT CONTR & SCHED CLUSTER (GRPO15)	SCHEDULERS (GRP323)
EXPRESSED JOB INTEREST:								
סחרר	10	1	6	22	•	13	•	•
80-80	23	20	36	15	9	25	12	•
INTERESTING	65	09	55	80	94	63	68	100
PERCEIVED UTILIZATION OF TALENTS:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	1 1 1 1	; ; ;	1 1 1 1 1		1 1 1
LITTLE OR NOT AT ALL	92	20	36	15	ı	31	12	20
FAIRLY WELL TO PERFECTLY	74	80	64	82	100	69	83	80
PERCEIVED UTILIZATION OF TRAINING:		1	1 1 1 1	i i i	; ; ; ;	1 1 1 1		
LITTLE OR NOT AT ALL	42	09	46	15	•	52	27	09
FAIRLY WELL TO PERFECTLY	28	40	55	82	100	75	73	40
SENSE OF ACCOMPLISHMENT FROM JOB:		1	1	1 1 1	1 1 1 1 1	1 1 1	1	1 1
DISSATISFIED	53	40	27	18	· 9	31	15	40
80-80	7	20	6	က	ı	1	19	,
SATISFIED	65	40	64	80	94	69	9	09
REENLISTMENT INTENTIONS:	1	1	1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 1 1 1 1 1	t 1 1
PLAN TO RETIRE	•	ı	•	13	17	ı	27	40
NO, OR PROBABLY NO	39	20	27	15	•	31	æ	•
YES, OR PROBABLY YES	61	80	73	70	78	69	62	90

ANALYSIS OF DAFSC GROUPS

An analysis of DAFSC groups, in conjunction with the analysis of the career ladder structure, is an important part of each occupational survey. The DAFSC analysis compares the skill levels to highlight any differences in the tasks performed. This information is especially helpful in evaluating career ladder documents such as the AFR 39-1 Specialty Description and the Specialty Training Standard (STS), as well as to help determine potential training needs.

A comparison of duty and task performance between 3- and 5-skill level personnel indicates the jobs they perform are essentially the same. This is consistent with the common AFR 39-1 Specialty Description; therefore, they will be discussed as one group (42330/42350) in this report. The distribution of skill-level groups across the career ladder specialty jobs is shown in Table 7. To give a sense of the progression through the skill levels, the relative time spent on each duty by skill-level group is presented in Table 8.

As can be seen from the tables and discussion previously mentioned in this report, as an individual progresses through the skill level structure, the more supervisory and administrative responsibilities are assumed. Also, in this progression, there is a decline in the amount of time spent performing technical duties. In the discussion of the skill levels below, please reference the listing of representative tasks performed and selected background information for each DAFSC group given in Appendix B.

TABLE 7 DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS CAREER LADDER CLUSTERS AND INDEPENDENT JOB TYPES (PERCENT MEMBERS PERFORMING)*

JOB GR	OUPS	DAFSC 42330/42350 (N=1,324)	DAFSC 42370 (N=487)
I.	BATTERY SHOP CLUSTER (GRP091, N=80)	6	1
II.	FLIGHTLINE MAINTENANCE CLUSTER (GRP260, N=815)	45	46
III.	TRANSIENT AIRCRAFT MAINTENANCE PERSONNEL (GRP346, N=61)	4	3
IV.	TROUBLESHOOTING AND MAINTENANCE CLUSTER (GRP249, N=200)	14	4
٧.	AVIONICS MAINTENANCE SPECIALISTS (GRP294, N=5)	-	-
VI.	IN-SHOP MAINTENANCE CLUSTER (GRP224, N=142)	10	3
VII.	TROUBLESHOOTING AND INSPECTION CLUSTER (GRP199, N=30)	2	1
VIII.	OVERSEAS OV-10 MAINTENANCE PERSONNEL (GRP384, N=5)	-	-
IX.	LOGISTICS SUPPORT SPECIALISTS (GRP387, N=10)	-	-
Х.	LIGHTING AND ANTI-SKID CIRCUIT SPECIALISTS (GRP305, N=5)	-	-
XI.	SUPERVISORY CLUSTER (GRP098, N=129)	2	20
XII.	QUALITY CONTROL INSPECTORS CLUSTER (GRP094, N=20)	-	3
XIII.	DEPOT LEVEL MAINTENANCE (GRP065, N=31)	2	1
XIV.	LINE QUALITY CONTROL PERSONNEL (GRP233, N=5)	-	-
XV.	TRAINER CLUSTER (GRP029, N=40)	1	5
XVI.	MAINTENANCE CONTROL AND SCHEDULING CLUSTER (GRP015, N=26)	-	4
	TOTAL	86	92

⁻ Denotes less than 1 percent
* Percent members within each specialty or independent job type
** Total does not equal 100 percent due to no response, rounding error, or not being grouped

TABLE 8

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY DAFSC GROUPS*

DUTIES	TOTAL	DAFSC	DAFSC	DAFSC
	SAMPLE	423X0	42350	42370
	(N=1,814)	(N=187)	(N=1,137)	(N=487)
A. ORGANIZING AND PLANNING B. DIRECTING AND IMPLEMENTING C. INSPECTING AND EVALUATING D. TRAINING E. PREPARING FORMS, RECORDS, OR REPORTS F. MAINTAINING SOLID-STATE COMPONENTS G. PERFORMING QUALITY CONTROL OR QUALITY ASSURANCE FUNCTIONS H. INSPECTING AIRCRAFT ELECTRICAL CIRCUIT COMPONENTS I. ISOLATING MALFUNCTIONS ON AIRCRAFT ELECTRICAL SYSTEMS J. PERFORMING BENCH CHECKS ON CONVENTIONAL COMPONENTS K. MAINTAINING AIRCRAFT ELECTRICAL SYSTEMS L. MAINTAINING TEST EQUIPMENT	21 17 21 29 29	- 1 - 1 - 1 - 1 - 1 - 1 - 2 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	181 8 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	111 7 7 8 8 15 17 18 18

* Columns may not add to 100 percent due to rounding - Less than 1 percent

Skill-Level Descriptions

DAFSCs 42330/42350. The 1,324 3-/5-skill level personnel (73 percent of the total sample) perform an average of 87 tasks. Performing a mostly technical job, members spent most of their work time doing flightline, troubleshooting, and in-shop maintenance activities. About 14 percent of this group hold a 3-skill level, while the rest hold a 5-skill level. Sixty-two percent are in their first enlistment and their computed JDI is 12.3, which is very close to the standardized average of 13.0. All of the job satisfaction indicators are high, with the exception of reenlistment intention, which is somewhat lower than the 42370s report.

DAFSC 42370. About 27 percent of the total sample hold a 7-skill level, which amounts to about 487 personnel. They are performing an average of 104 tasks and have a JDI of 15.1, reflecting the expanded supervisory responsibilities of these senior personnel. While the group is still performing the technical aspects of the job, they are spending an increasing amount of time on the supervising, administering, directing, and training of the 42330/42350 personnel. Job satisfaction indicators for this group are all high, except the satisfaction with sense of accomplishment indicator, which indicates a slightly lower satisfaction level than the 42330/42350 personnel.

Summary

Career ladder progression through the skill levels is well defined, with the 3- and 5-skill level personnel spending the majority of their job time performing the general maintenance duties of the career field. The 7-skill level personnel are spending more time doing supervisory duties and less time performing the technical aspects of the job.

ANALYSIS OF AFR 39-1 SPECIALTY DESCRIPTIONS

The foregoing 3-, 5-, and 7-skill level survey data were compared to the AFR 39-1 Specialty Descriptions for the Aircraft Electrical Systems Specialist (AFSCs 42310, 42330, and 42350) and the Aircraft Electrical Systems Technician (AFSC 42370), dated 1 January 1982. These descriptions are intended to give a broad overview of the duties and tasks performed by each skill level of the career ladder.

Based on the preceding DAFSC analysis, the 3- and 5-skill level description appears complete and accurately reflects the broad range of duties and responsibilities of these personnel. The 7-skill level description also appears to be complete and accurate, indicating not only the supervisory responsibilities, but the technical aspects of the job as well. Specialty qualifications, in terms of knowledge, experience, and training, also appear to be appropriate and complete in both descriptions.

ANALYSIS OF TAFMS GROUPS

By reviewing the utilization patterns, based on Total Active Federal Military Service (TAFMS), we can begin to see how responsibilities, jobs, and tasks change over the course of time. As is typical with most career ladders (the 423XO is no exception), as time in service and experience increase, there is a corresponding increase in the performance of duties involving supervisory, managerial, and training tasks. On the other hand, as time spent on supervisory and administrative duties increases, the time spent on technical tasks, as well as the number of technical tasks performed, generally tapers off. This general trend of shift in the time spent performing the various duties is well illustrated in Table 9. These changes in responsibilities which occur over time are consistent with the changes mentioned in the DAFSC analysis section.

First-Enlistment Personnel

There are 821 first-enlistment personnel (1-48 months) in the total sample, or 45 percent of the surveyed personnel. They spend the majority of their time performing the general maintenance tasks associated with aircraft electrical systems. Three-quarters of their time is spent maintaining, isolating, and inspecting aircraft electrical systems. They perform an average of 86 tasks, with most of them grouped in the specialty jobs that are performing most of the technical work in the 423XO career field. (Appendix C provides a listing of representative tasks performed by the three TAFMS groups, as well as some selected background information). The distribution of first-term airmen across job group specialties is illustrated in Figure 2.

Job Satisfaction

Comparisons of group attitudes toward their jobs help career field managers understand some of the factors which may affect the job performance of the 423XO airmen. These data were gathered through five inventory questions covering job interest, perceived utilization of talents and training, sense of accomplishment, and reenlistment intentions. Table 10 presents this data along with the same information from comparative samples of maintenance AFSCs surveyed in 1983. On every measure, the degree of satisfaction is essentially the same for the 423XO career field and the comparative sample.

TABLE 9

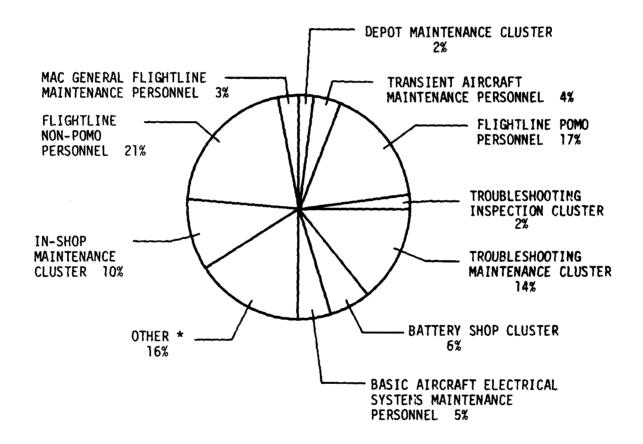
PERCENT TIME SPENT PERFORMING DUTIES BY 423X0 TAFMS GROUPS*

DUTIES	1-48 (N=821)	49-96 (N=503)	97+ (N=490)
MANAGERIAL AND ADMINISTRATIVE			
A. ORGANIZING AND PLANNING B. DIRECTING AND IMPLEMENTING C. INSPECTING AND EVALUATING D. TRAINING	ורור	0404	5 11 7 8
E. PREPARING FORMS, RECORDS, OR REPORTS	œ	O	O
TECHNICAL			
F. MAINTAINING SOLID-STATE COMPONENTS G. PERFORMING QUALITY CONTROL OR QUALITY ASSURANCE FUNCTIONS H. INSPECTING AIRCRAFT ELECRICAL CIRCUIT COMPONENTS I. ISOLATING MALFUNCTIONS ON AIRCRAFT ELECTRICAL SYSTEMS J. PERFORMING BENCH CHECKS ON CONVENTIONAL COMPONENTS K. MAINTAINING AIRCRAFT ELECTRICAL SYSTEMS L. MAINTAINING TEST EQUIPMENT	7 5 4 5 8 8 3 7 7 8 9 7 8 9 7 9 9 9 9 9 9 9 9 9 9 9 9	1 16 22 3 29 29	- 15 16 2 18

^{*} Columns may not add to 100 percent due to rounding - Less than 1 percent

FIGURE 2

DISTRIBUTION OF 423XO FIRST-ENLISTMENT PERSONNEL IN CAREER LADDER JCBS (N=821)



^{*} REPRESENTS JOB GROUPS WITH LESS THAN 1% AND FIRST-ENLISTMENT PERSONNEL NOT GROUPED IN THE JOB SPECIALTY GROUPS

TABLE 10

COMPARISON OF JOB SATISFACTION INDICATORS BY TAFMS GROUPS (PERCENT MEMBERS RESPONDING)*

	1-48 M	1-48 MONTHS TAFMS	49-96 M	49-96 MONTHS TAFMS	97 + MO	97 + MONTHS TAFMS
	423X0 (N=821)	COMPARATIVE SAMPLE** (N=3,206)	423X0 (N=503)	COMPARATIVE SAMPLE** (N=1,447)	423X0 (N=490)	COMPARATIVE SAMPLE** (N=2,220)
EXPRESSED JOB INTEREST						
DULL SO-SO INTERESTING	11 16 72	10 19 70	10 14 75	12 15 72	9 14 76	7 12 79
PERCEIVED UTILIZATION OF TALENTS						
, LITTLE OR NOT AT ALL , FAIRLY WELL TO PERFECTLY	21 79	20 79	20 79	19 81	19 80	15 85
PERCEIVED UTILIZATION OF TRAINING						
LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY	16 83	20 78	23 76	22 77	19 80	19 81
REENLISTMENT INTENTIONS						
PLAN TO RETIRE NO OR PROBABLY NO YES OR PROBABLY YES	- 41 55	- 53	- 26 72	- 29 70	14 9 76	19 8 72

55

Columns may not equal 100 percent due to no response or rounding Comparative sample included Mission Equipment Maintenance career ladders surveyed in 1983 AFSCs include: 305X4, 324X0, 328X5, 423X1, 423X5, 464X0

⁻ Less than 1 percent

TRAINING ANALYSIS

Information gathered with the occupational survey is also used to assist in the development or evaluation of training programs that are relevant for personnel working in their first assignment. Some factors which may be used in the analysis include percent of first job (1-24 months TAFMS) or first-enlistment (1-48 months TAFMS) personnel performing tasks, along with training emphasis (TE) and task difficulty (TD) ratings (as explained in the Task Factor Administration section). These factors were used in evaluating the 423X0 STS and the POI for Course 3ABR42330, based on the matching of inventory tasks to appropriate sections of the STS and POI by technical school personnel from the Chanute Technical Training Center, Chanute AFB IL. A complete computer listing displaying the percent members performing, TE and TD ratings for each task, along with STS and POI matchings, has been forwarded to the technical school for use in further detailed reviews of training documents. A summary of that information is given below.

Training Emphasis

Training emphasis (TE) ratings are helpful in determining which tasks are most important for first-enlistment training. The top 20 tasks rated by senior aircraft electrical system personnel as highest in importance for first-enlistment training are listed in Table 11. In all, 98 tasks were given high TE ratings. When matched to training documents, such as the STS and POI, TE ratings can be helpful in determining tasks on which personnel should be trained. Some of these tasks will be discussed in a review of the POI later in this section.

TABLE 11

EXAMPLES OF TASKS RATED HIGH FOR TRAINING EMPHASIS

PERCENT

* Average training emphasis is 2.6; a high TE rating is 4.2 ** Average task difficulty is 5.00; with a standard deviation of 1.00

Analysis of the Specialty Training Standard (STS)

A comprehensive review of STS 423X0, dated August 1982, compared STS paragraphs and subparagraphs to the occupational survey data. STS elements containing general information or subject-matter knowledge requirements were not evaluated. Due to the emphasis in the STS on learning electrical theory and the general principles of electronics and electrical systems, there are a number of general elements not evaluated. The wide variety of aircraft maintained results in the general requirements for a 3-level, and necessitates the follow-on training received at field training detachment (FTD) courses for each assigned aircraft.

The elements listed in the STS with tasks referenced to them were adequately supported in terms of being performed by a substantial percent of the career field. Most of the tasks not referenced to the STS are low in both percent members performing or in training emphasis ratings. Those tasks that were not matched and have at least 20 percent members performing or a high training emphasis, or both, are listed below:

make entries on AGE forms such as nonpowered record forms conduct OJT isolate malfunctions of anti-ice or deice electrical control and warning circuits inspect electrically operated hydraulic pump circuit components isolate malfunctions on engine anti-icing control and warning circuits isolate malfunctions on galley or latrine electrical circuits

These tasks should be considered for inclusion in the next revision of the STS. The STS and the task matchings given by subject-matter specialists are, on the whole, appropriate and appear to be correct.

POI Analysis

A similar match of the survey data to the POI for Course 3ABR42330 shows that most blocks with tasks matched to them are well supported by the survey data. Based on the previously mentioned assistance from subject-matter specialists in matching inventory tasks to the POI, computer products were generated displaying the results of the matching process. Information on these products include TE and TD ratings and percent members performing the tasks for first-job (1-24 months TAFMS) and first-enlistment (1-48 months TAFMS) personnel.

As in the STS analysis, the POI has a number of instruction blocks that have no tasks referenced to them because of their general nature (i.e., basic theory, electrical systems, or electronics principles). Table 12 gives examples of tasks not referenced to the POI that were high in training emphasis and had 30 percent or more members performing. These tasks should be considered by subject-matter specialists for inclusion in the POI. It must be noted again that there are FTD follow-on courses and vigorous OJT programs for almost every different aircraft. This has a direct effect on the orienting of the POI towards general information and not on specific maintenance tasks.

Summary

Overall, the STS match to the survey data appeared appropriate. The POI was well supported in those modules that had tasks referenced to them; however, a large number of tasks that were not referenced to the POI should be considered for inclusion in Course 3ABR42330. Finally, the 423X0 personnel report they are well trained after completion of follow-on training and that their training is being well utilized on the job. Unlike the in-residence course, FTD documentation does not allow a comparison of what should be taught to what is actually being taught. Thus, the problem seems to be a matter of documentation. Somewhere in the process, Aircraft Electrical Systems Trainers are providing the training that is needed, but it is difficult to evaluate how cost-efficient this training is in terms of factors such as time spent giving the training and possible duplication of training between the resident course and FTDs. Survey data should provide a useful basis for improvement of training documentation, as well as evaluation of FTD training by personnel familiar with each specific FTD course. A better coordination between training communities appears to be a necessary condition for increased efficiency in training the Aircraft Electrical Systems personnel.

TABLE 12

EXAMPLES OF TASKS NOT REFERENCED TO POI 3ABR42330

		TRAINING	PERCENT MEM PERFORMING 1ST 1ST	NT MEMBERS RMING 1ST	TASK
TASKS NOT	NOT REFERENCED	EMPHAS IS*	30B	ENL I STMENT	DIFFICULTY**
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	6.71	62	64	4.39
1530	OF CONSTANT SPEED	6.47	42	20	6.37
H163	INSPECT FIRE AND OVERHEAD DETECTION CIRCUIT COMPONENTS INSPECT ALTEDNATING CLIPPENT (AC) GENERATOR AND	6.10	99	89	4.94
1246	DISTRIBUTION SYSTEM CIRCUIT COMPONENTS ISOLATE MALFUNCTIONS ON BATTERY CHARGER SYSTEM	5.98	55	58	5.56
! !		5.90	44	46	4.98
1247 H212	ISOLATE MALFUNCTIONS ON BATTERY DISTRIBUTION CIRCUIT. INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT	5.86	52	55	5.19
		5.69	54	09	5.56
H164 I278	INSPECT ANTI-SKID CIRCUIT COMPONENTS ISOLATE MALFUNCTIONS ON FUEL CONTROL AND WARNING	5.61	51	52	5.13
		5.43	39	45	5.92
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	5,43	28	78	2.22
H195 K455	EXTERNAL POWER SYSTEM CIRCUIT COMPONICTO MODIFICATIONS OF AIRCRAFT FIFCT	5.37	49	54	4.35
	MS	5.29	89	70	5.76
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	5.26	62	65	3.82
K456	POT CONNECTORS OR RELAYS	5.26	42	44	3.22
K194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	5.22	63	65	3.61
K523	REPLACE MICRO SWITCHES	5.22	26	09	4.00
H162 G155		5.16	32	39	5.72
	MS S	5.14	41	47	5.57
H178	INSPECT CONSTANT SPEED DRIVE (CSD) CIRCUIT COMPONENTS	5.14	34	39	5.49
K441	COMPACT WIRE	5.10	32	33	5,35
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	5.10	89	29	4.08
* * Av	Average training emphasis is 2.6; high TE rating is 4.2 Average task difficulty is 5.00; standard deviation of 1.00				

ANALYSIS OF CONUS-OVERSEAS GROUPS

Comparisons were made of the tasks performed and background data between 862 5-skill level personnel assigned within the continental United States (CONUS) and 262 airmen assigned overseas.

No major differences in the utilization of these groups were found. They were virtually equal in terms of job difficulty (with a JDI of 13.0 for both groups) and average number of tasks performed (CONUS members performed eight more). On the whole, the only differences were trends in job satisfaction indicators and test equipment used. The overseas group consistently rated job satisfaction slightly lower than the CONUS group, while the CONUS group consistently reported using test equipment to a slightly greater extent than the overseas group. Appendix D shows representative tasks for both groups listed in descending order of percent members performing. Table 13 shows the comparison of satisfaction indicators between CONUS and overseas personnel holding a 5-skill level. There are no practical differences between the two groups.

MAJCOM ANALYSIS

Another area of analysis involves examining duty and task performance across major commands (MAJCOM). The differences were relatively minor and were associated with the type of aircraft. The tactical forces (TAC, USAFE, PACAF, and AAC) were all similar in the tasks performed due to the type of aircraft maintained. Likewise, MAC and SAC were very much the same due to the "heavy" aircraft they maintain. The only command significantly different was ATC due to the assignment of many career field trainers; thus, a lot of time was spent on training duties and tasks. Use of first-term personnel across the MAJCOMs was also analyzed. Here, there was even less difference across commands than the minor variations mentioned above for major commands as a whole.

In summary, there were some minor differences due to the type of aircraft assigned to each of the MAJCOMs, except ATC with their unique training mission. A tremendous amount of time spent on similar tasks by the whole career field illustrates the relatively consistent nature of the 423XO career ladder.

TABLE 13

COMPARISON OF JOB SATISFACTION INDICATORS BY CONUS AND OVERSEAS GROUPS

(Percent Members Performing)

	CONUS 42350 (N=862)	OVERSEAS 42350 (N=262)
EXPRESSED JOB INTEREST		
DULL SO-SO INTERESTING	10 17 72	16 16 67
PERCEIVED UTILIZATION OF TALENTS		
LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY	21 79	24 75
PERCEIVED UTILIZATION OF TRAINING		
LITTLE OR NOT AT ALL FAIRLY WELL TO PERFECTLY	19 80	22 78
REENLISTMENT INTENTIONS		
PLAN TO RETIRE NO OR PROBABLY NO YES OR PROBABLY YES	35 62	2 33 60

^{*} Columns may not add to 100 percent due to no response or rounding

⁻ Less than 1 percent

COMPARISON TO PREVIOUS SURVEY

The results of this survey report were compared with the previous Occupational Survey Report (OSR) of the 423XO career ladder, dated January 1979, to determine if there were any changes in the jobs performed or the overall satisfaction of the Aircraft Electrical Systems career field.

The current job structure analysis (Figure 1) was compared to the job structure identified in the previous OSR. It should be noted that the 1979 survey included DAFSC 42399 personnel; the 1984 did not. The following six clusters were identified in the 1979 report:

- I. AIRCRAFT ELECTRICIANS (N=1723)
- II. QUALITY CONTROL PERSONNEL (N=40)
- III. BATTERY SHOP PERSONNEL (N=79)
- IV. AIRCRAFT ELECTRICAL SYSTEMS MANAGEMENT PERSONNEL (N=218)
- V. COMBAT LOGISTICS SUPPORT SPECIALISTS (N=23)
- VI. AIRCRAFT ELECTRICAL SYSTEMS INSTRUCTORS (N=35)

As can be readily seen, this report is a much more detailed look at the 423XO career field. A comparison illustrating this point is shown in Table 14. There are some interesting parallels between the past and the present, especially in the battery shop, quality control, and FTD instructors. Missing in the last survey report is the in-shop maintenance function and the transient aircraft maintenance group. These two job groups were probably part of the larger job groupings described by the previous OSR. There are also a number of small, independent job types in the current OSR that were not identified or addressed in the previous OSR.

Job satisfaction indicators between the past and current survey were also compared. The percent responding to each question are essentially the same (see Table 15). One notable exception is the reenlistment intent, with first enlistment having a 17 percent gain, the second enlistment with a 14 percent gain, and career personnel with an 8 percent gain. This increase is a reflection of a general Air Force-wide increase in reenlistment intentions. The only other significant difference is a dramatic increase in the job interest of the second enlistment personnel who indicate a much higher job interest (13 percent increase) in the current survey.

A comparison of the TAFMS, DAFSC, and MAJCOM sections revealed no significant differences between the two OSRs. There were some minor variations that were a result of the inclusion of DAFSC 42399 personnel in the 1979 OSR.

TABLE 14

30B SPECIALTY COMPARISONS BETWEEN CURRENT AND PREVIOUS SURVEYS

1984 OSR	1979 OSR
BATTERY SHOP CLUSTER (N=80) FLIGHTLINE MAINTENANCE CLUSTER (N=815),	BATTERY SHOP PERSONNEL (N=79) AIRCRAFT ELECTRICIANS (N=1,723)
AND TROUBLESHOOTING MAINTENANCE CLUSTER (N=200) TRANSIENT AIRCRAFT MAINTENANCE PERSONNEL (N=61)	NI*
AVIONICS MAINTENANCE SPECIALISTS (N=5) IN-SHOP MAINTENANCE CLUSTER (N=142)	N I N I
TROUBLESHOOTING INSPECTION CLUSTER (N=30) OVERSEAS OV-10 MAINTENANCE PERSONNEL (N=5)	IN
LOGISTICS SUPPORT SPECIALISTS (N=10) LIGHTING AND ANTI-SKID CIRCUIT SPECIALISTS	N I N I
(N=3) SUPERVISORY CLUSTER (N=129), AND MAINTENANCE CONTROL AND SCHEDULING CLUSTER (N=26)	AIRCRAFT ELECTRICAL SYSTEMS MANAGEMENT PERSONNEL (N=218)
QUALITY CONTROL INSPECTORS CLUSTER (N=20), AND	QUALITY CONTROL PERSONNEL (N=40)
LINE QUALITY CONTROL PERSONNEL (N=5) DEPOT LEVEL MAINTENANCE (N=31) TRAINER CLUSTER (N=40)	COMBAT LOGISTICS SUPPORT SPECIALISTS (N=23) AIRCRAFT ELECTRICAL SYSTEMS INSTRUCTORS (N=35)

*NI = Not Identified

TABLE 15

COMPARISON OF PREVIOUS SURVEY AND CURRENT SURVEY 423XO TAFMS GROUPS (Percent Members Performing)

	1-48	8	49-96	96	+26	
	1979	1984	1979	1984	1979	1984
EXPRESSED JOB INTEREST						
DULL	6	11	12	10	7	6
\$0-50	19	16	23	14	Ξ;	14
INTERESTING	69	7.7	29	ر2	6/	9/
PERCEIVED UTILIZATION OF TALENTS						
LITTLE OR NOT AT ALL	22	21	22	50	13	19
FAIRLY WELL TO PERFECTLY	1	6/	11	6/	88	80
PERCEIVED UTILIZATION OF TRAINING						
LITTLE OR NOT AT ALL	21	16	24	23	14	19
FAIRLY WELL TO PERFECTLY	78	83	75	9/	74	80
REENLISTMENT INTENTIONS						
PLAN TO RETIRE	•	1	ı	•	•	•
NO OR PROBABLY NO** YES OR PROBABLY YES	98	41 55	58 58	26 72	31 68	23 76

^{*} Columns may not add to 100 percent due to rounding or no response ** Includes those who plan to retire

⁻ Less than 1 percent

IMPACT OF SOLID-STATE TECHNOLOGY

The impact of solid-state technology on the 423XO career field was one of the original questions asked when this survey was requested. As can be seen in Table 16, there are very low percent members performing solid-state tasks—and these are the top 20 tasks. There are a few tasks in Table 16 that have a high training emphasis rating, which may indicate that training on these tasks should be given to first-term airmen, but most are low in both percent members performing and training emphasis ratings. Of all the specialty job groups, only one reported spending a significant portion of their time on solid-state tasks. The Solid-State Component and Test Equipment Maintenance Personnel in the Depot Level Maintenance Cluster spend 21 percent of their time performing solid-state tasks. This is significantly higher than any other group in the career field, and 20 percent more time spent than the 423XO career field as a whole is spending on solid-state tasks. A listing of the top tasks performed by this job group is in Appendix A, Table A37.

In summary, there appears to be no signficant impact from the addition of solid-state technology to the Aircraft Electrical Systems career field at this time. Other than one specialty job group, which represents less than 1 percent of the career field, there is little maintenance of solid-state equipment or components being performed by the career field as a whole.

TABLE 16

PERCENT MEMBERS PERFORMING SOLID-STATE TASKS BY DAFSC

TASKS		423X0	42330	42350	42370	TNG EMP*
K453 K512	PERFORM SOLDERING ON SOLID-STATE CIRCUIT BOARDS REMOVE OR INSTALL SOLID-STATE CIRCUIT BOARDS DEMOVE OB INSTALL BESISTEDS OF CARACITORS ON SOLID	21 15	19 15	23 16	18 15	4.22 3.06
r 14/	REMOVE OK INSTALL RESISTORS OR CAPACITORS ON SOLID- STATE CIRCUIT COMPONENTS	14	13	15	13	4.20
F117	BENCH CHECK AC GENERATORS WITH SOLID-STATE COMPONENTS	11	6	12	<u></u> თ	4.69
F115 K513	BENCH CHECK AC CONTROL PANEL SOLID-STATE COMPONENTS REMOVE OR INSTALL SOLID-STATE COMPONENTS ON PRINTED	10	7	12	ω	4.31
:		10	œ	10	10	3.00
F143	ISOLATE MALFUNCTIONS WITHIN SOLID-STATE BRAKING	0	u	a	5	2 47
F116	BENCH CHECK AC FREQUENCY AND LOAD CONTROLLERS WITH	•	,	•	2	;
) 	SOLID-STATE COMPONENTS	∞	5	œ	∞	4.22
F139	BRAKING (œ	2	œ	6	3.45
F141	INVERTER	œ	7	∞	∞	3.06
F145	ISOLATE MALFUNCTIONS WITHIN SOLID-STATE INVERTER		,	,		
	SYSTEM CIRCUITS	ထ	9	∞	∞	2.84
F119	BENCH CHECK AC VOLTAGE REGULATOR SOLID-STATE	ı	,			
	COMPONENTS	7	9	ω	2	4.45
F120 F118	BENCH CHECK ANTI-SKID SOLID-STATE COMPONENTS RENCH CHECK AC POWER DISTRIBITION SOLID-STATE	7	9	ω	ည	4.04
)		ဖ	70	9	2	4.04
F134	BENCH CHECK LANDING GEAR CIRCUIT SOLID-STATE	•	•	ı	•	
		م	٥	`		3.61
F144	ISOLATE MALFUNCTIONS WITHIN SOLID-STATE CONVERTER CIRCUITS	9	က	9	ß	2.49
F124	CONTINUC					
	BOXES	ഹ	ഹ	9	4	3.61
F136	BENCH CHECK OVERHEAT WARNING CIRCUIT SOLID-STATE COMPONENTS	ĸ	9	G	2	3,94
J381	SOLID-STATE CIRCUIT	വ	4	ഹ	വ	2.74
F127	BENCH CHECK DC GENERATORS WITH SOLID-STATE COMPONENTS	2	4	9	က	3.12

* Average training emphasis rating is 2.63; High training emphasis rating is 4.24

IMPLICATIONS

The results of this occupational survey indicate the 423XO career ladder is relatively consistent. The main specialty jobs group around technical functions, supervisory duties, and managerial responsibilities. First-term airmen are utilized in virtually all technical jobs and many are performing some supervisory duties as well. The commonality of aircraft electrical systems, coupled with the wide usage of first-term personnel across specialty jobs and the diversity of aircraft-specific variations, together suggest that common basic electrical and electronics training, followed by system-specific follow-on training, is appropriate. The current training structure is of this form and appears to support the needs of the career field; however, where the training is actually taking place is unclear. There is a tremendous amount of training being done in the follow-on courses, especially in FTDs, but no formal documentation is available for comparison to the basic resident course documents; therefore, it is difficult to know where the training is done and to what proficiency level airmen are being trained. Clear documentation of training given in follow-on courses would show where this training is being received, and also allow a comparison of the various structured training programs to see if there is a duplication of training. Finally, the impact of solidstate technology on the 423XO career field is minimal, with few airmen performing solid-state related tasks.

Overall, the 423XO career ladder is stable, organized effectively, and the proper training is apparently being received. The AFR 39-1 Specialty Descriptions appear to be accurate, job satisfaction indicators are positive, and reenlistment intentions are up for the career field as a whole. Apart from the issue of documentation of training and inclusion of some unmatched tasks in the STS and POI, there are no other major issues.

APPENDIX A

SELECTED REPRESENTATIVE TASKS PERFORMED BY CAREER LADDER STRUCTURE GROUPS

GROUP ID NUMBER AND TITLE: GRP091

Battery Shop Cluster

GROUP SIZE: N=80

PERCENT OF SAMPLE: 4.4 %

AVERAGE GRADE: E-4

AVERAGE TICF: 33 Months

AVERAGE TAFMS: 47 Months

		PERCENT MEMBERS
TASKS		PERFORMING
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) CLEAN NICKEL-CADMIUM BATTERIES COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) ASSEMBLE OR DISASSEMBLE NICKEL-CADMIUM BATTERIES INSPECT AIRCRAFT BATTERIES REMOVE OR INSTALL CELLS ON NICKEL-CADMIUM BATTERIES CLEAN LEAD ACID BATTERIES CRIMP WIRES TO SPLICES AND TERMINALS	91
K434	CLEAN NICKEL-CADMIUM BATTERIES	89
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	88
K408	ASSEMBLE OR DISASSEMBLE NICKEL-CADMIUM BATTERIES	86
H160	INSPECT AIRCRAFT BATTERIES	82
K473	REMOVE OR INSTALL CELLS ON NICKEL-CADMIUM BATTERIES	79
K433	CLEAN LEAD ACID BATTERIES	70
K439	CRIMP WIRES TO SPLICES AND TERMINALS REMOVE OR INSTALL CONNECTORS ON NICKEL-CADMIUM BATTERIES	66
K4/6	REMOVE OR INSTALL CONNECTORS ON NICKEL-CADMIUM BATTERIES	91
E 90	COMPLETE CONDITION TAGS AND LABELS	J 9
	REMOVE OR INSTALL CONNECTOR PLUGS	57
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	51
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	51
K548	MAINTAIN BATTERY CHARGERS	50
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	50
J388	MAINTAIN BATTERY CHARGERS REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS PERFORM CAPACITANCE TESTS OR SERVICES ON NICKEL-CADMIUM BATTERIES	
	BATTERIES	47
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	44
K418	CLEAN CONNECTOR PLUGS	42
E104	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST)	41
E98		
K526		
	PANELS	38
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	38
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	34
J387	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS INSPECT ELECTRICAL SYSTEMS FOR CORROSION PERFORM CAPACITANCE TESTS ON LEAD ACID BATTERIES INSPECT SHOP TEST EQUIPMENT OR TEST STANDS INSPECT ELECTRICAL BONDS OR GROUNDS ASSEMBLE OR DISASSEMBLE ROTATING BEACONS INSPECT BATTERY CHARGER SYSTEM CIRCUIT COMPONENTS	31
L527	INSPECT SHOP TEST EQUIPMENT OR TEST STANDS	29
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	27
K411	ASSEMBLE OR DISASSEMBLE ROTATING BEACONS	26
H167	INSPECT BATTERY CHARGER SYSTEM CIRCUIT COMPONENTS	26
E105	MAKE ENTRIES ON AFTO FORMS /81 (AEROSPACE VEHICLE FLIGHT	
	DATA DOCUMENT\	25
K455	PERFORM TOTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	25
L535	ISOLATE MALFUNCTIONS ON BATTERY CHARGERS	24
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	24

GROUP ID NUMBER AND TITLE: GRP260

Flightline Maintenance Cluster

GROUP SIZE: N=815

PERCENT OF SAMPLE: 45%

AVERAGE GRADE: E-4

AVERAGE TICF: 61 Months

AVERAGE TAFMS: 72 Months

TASKS		PERCENT MEMBERS PERFORMING
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	
10,0	CIRCUITS	97
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	96
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	96
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	30
	CIRCUITS	95
E93		95
1220	TON ATE MAI FUNCTIONS ON AIRCRAFT AS DOUGD DISTRIBUTION	
	CIRCUITS	95
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	95
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	94
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	93
1234	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	93
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	93
K475	REMOVE OR INSTALL CONNECTOR PLUGS	93
н194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	92
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	92
E92	CIRCUITS ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS INSPECT ELECTRICAL BONDS OR GROUNDS REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS REMOVE OR INSTALL CONNECTOR PLUGS INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS REMOVE OR INSTALL PINS ON CONNECTOR PLUGS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	
H212	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	92
	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	89
K439	CRIMP WIRES TO SPLICES AND TERMINALS	89
H229	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	88
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	88
1271	ISOLATE MALFUNCTIONS ON EXTERNAL LIGHTING CIRCUITS	87
н163	INSPECT ALTERNATING CURRENT (AC) GENERATOR AND DISTRIBUTION	
	SYSTEM CIRCUIT COMPONENTS	86
K418	CLEAN CONNECTOR PLUGS	86
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	85
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	•
111.00	PANELS	84
	INSPECT EXTERNAL POWER SYSTEM CIRCUIT COMPONENTS	84
K455 K525		83
K458	WEATHE MINORALL EFFORKTONE DIDIEND	83 82
	REPLACE MICRO SWITCHES	82 79
V372	VELEWOE MITCHES	19

GROUP ID NUMBER AND TITLE: GRP382

Flightline POMO Personnel

GROUP SIZE: N=311

PERCENT OF SAMPLE: 17%

AVERAGE GRADE: E-4

AVERAGE TICF: 59 Months

AVERAGE TAFMS: 71 Months

		PERCENT MEMBERS
TASKS		PERFORMING
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	
12/3	CIRCUITS	99
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	97
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	J.
1233	CIRCUITS	97
Н197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	95
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	95
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	95
	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	95
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	94
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	94
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	94
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	94
K475	REMOVE OR INSTALL CONNECTOR PLUGS	92
	ISOLATE MALFUNCTIONS ON SPEED BRAKE CONTROL CIRCUITS	92
	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	
	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	92
	CRIMP WIRES TO SPLICES AND TERMINALS	91
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	91
K487	REMOVE OR INSTALL FIRE OR OVERHEAT LOOPS	90 89
H229 E92	INSPECT WARNING LIGHT CIRCUIT COMPONENTS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	89
E92	RECORD)	89
H221	INSPECT SPEED BRAKE CONTROL CIRCUIT COMPONENTS	88
H163	INSPECT ALTERNATING CURRENT (AC) GENERATOR AND	00
11103	DISTRIBUTION SYSTEM CIRCUIT COMPONENTS	88
1293	ISOLATE MALFUNCTIONS ON NOSE-WHEEL STEERING CIRCUITS	88
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	87
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	87
	CLEAN CONNECTOR PLUGS	86
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	86
1240	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	86
	ISOLATE MALFUNCTIONS ON AIR REFUELING CIRCUITS	86
K455	PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	85

GROUP ID NUMBER AND TITLE: GRP0612 Depot Level Maintenance Personnel

GROUP SIZE: N=5 PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-5 AVERAGE TICF: 85 Months

AVERAGE TAFMS: 94 Months

		PERCENT MEMBERS
TASKS		PERFORMING
KACC	DEDECOR TOTO MODIFICATIONS OF AIDCRAFT FIRSTRIAL SYSTEMS	100
K455	PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS REMOVE OR INSTALL PINS ON CONNECTOR PLUGS CRIMP WIRES TO SPLICES AND TERMINALS REMOVE OR INSTALL CONNECTOR PLUGS REPLACE COMPACT WIRE BUNDLES REWIRE AIRCRAFT ELECTRICAL SYSTEMS CRIMP KAPTON WIRE TO CONVERTOR PLUG PINS CLEAN CONNECTOR PLUGS PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS INSPECT ELECTRICAL BONDS OR GROUNDS REMOVE OR INSTALL FLEXIBLE CONDUITS INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	100
K503	CRIMO LIDES TO SPLICES AND TERMINALS	100
K439 K475	CKIMA MIKES IN SAFINES WAN TEKMINATS	100
K521	DEDLACE COMPACT LITTLE DINNELS	100
K525	DENIDE AIDCDAFT FLECTDICAL SYSTEMS	100
K437	CRIMD KAPTON WIRE TO CONVERTOR PILIC PINS	100
K418	CLEAN CONNECTOR PLUGS	100
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	100
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	100
K488	REMOVE OR INSTALL FLEXIBLE CONDUITS	100
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	100
K446	FABRICATE WIRING HARNESSES	100
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	100
H194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	100
K506	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS REMOVE OR INSTALL LANDING GEAR CONTROL BOXES ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	100
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	100
K496	REMOVE OR INSTALL LANDING GEAR CONTROL BOXES	100
1234		100
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	
	CIRCUITS	100
H224		100
H163	INSPECT ALTERNATING CURRENT (AC) GENERATOR AND	100
	DISTRIBUTION SYSTEM CIRCUIT COMPONENTS INSPECT TRANSFORMER-RECTIFIER (TR) CIRCUIT COMPONENTS	100 100
H227	INSPECT TRANSFORMER-RECTIFIER (TR) CIRCUIT COMPONENTS	100
I 258	ISOLATE MALFUNCTIONS OF CONSTANT SPEED DRIVE (CSD) CIRCUITS	100
K401		80
K401 K452		80
K442	FABRICATE ELECTRICAL LEADS	80
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	00
KJZU	PANELS	80
K456	POT CONNECTORS OR RELAYS	80
	FABRICATE BONDINGS	80
	CRIMP WIRES TO CONVERTOR PLUG PINS	80
K487	REMOVE OR INSTALL FIRE OR OVERHEAT LOOPS	80

GROUP ID NUMBER AND TITLE: GRP499

Shift Supervisors

GROUP SIZE: N=18

PERCENT OF SAMPLE: 1%

AVERAGE GRADE: E-5

AVERAGE TICF: 107 Months

AVERAGE TAFMS: 128 Months

		PERCENT MEMBERS
TASKS		PERFORMING
G149	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	100
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	100
K455	RECORD) PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	100
1275	CIRCUITS	100
1269		94
	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	94
K418	CLEAN CONNECTOR PLUGS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION CIRCUITS CRIMP WIRES TO SPLICES AND TERMINALS MAKE ENTRIES ON AFTO FORMS 781 (AFROSPACE VEHICLE FLIGHT	94
393	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	94
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	94
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	94
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	94
1239	CINCUITS ON AIRCRAFT AC PUWER DISTRIBUTION	0.4
K439	CIRCUITS CDIMD WIDES TO SDITCES AND TERMINALS	94 80
E105	MAKE ENTRIES ON AFTO FORMS 783 (AFROSPACE VEHICLE FLIGHT	03
2103	CIRCUITS CRIMP WIRES TO SPLICES AND TERMINALS MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT DATA DOCUMENT) INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS REMOVE OR INSTALL CONNECTOR PLUGS REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS (AFSC 42350) INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS REMOVE OR INSTALL PINS ON CONNECTOR PLUGS PREPARE AIRMAN PERFORMANCE REPORTS (APR) ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS REMOVE OR INSTALL FIRE OR OVERHEAT LOOPS INSPECT WARNING LIGHT CIRCUIT COMPONENTS	89
H194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	89
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	89
K475	REMOVE OR INSTALL CONNECTOR PLUGS	89
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	89
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	89
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS	00
	(AFSC 42350)	83
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	83 83
K503 C63	REMUVE UK INSTALL PINS UN CUNNECTUK PLUGS	83
I 234	TOOLATE MALEUNCTIONS ON AC CENEDATOD SYSTEMS	83
K487	PEMOVE OR INSTALL FIRE OR OVERHEAT LOOPS	83
H229	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	83
B23	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	83
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	83
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	78

GROUP ID NUMBER AND TITLE: GRP478

OJT Trainers

GROUP SIZE: N=5

PERCENT OF SAMPLE: less than 1%

AVERAGE GRADE: E-5

AVERAGE TICF: 72 Months

AVERAGE TAFMS: 84 Months

TASKS		PERCENT MEMBERS PERFORMING
H197 E92	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	100
	RECORD)	100
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	100
G149 I273	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	100
	CIRCUITS	100
G154 G153	PERFORM MAINTENANCE ACTIVITY INSPECTIONS OR SELF-INSPECTIONS OBSERVE IN-PROCESS MAINTENANCE OR MAKE ON THE SPOT	100
	CORRECTIVE ACTIONS	100
D75	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	100
D71	CONDUCT OJT	100
D74	COUNSEL TRAINEES ON TRAINING PROGRESS	100
	INSPECT PARTS RECEIVED FOR SERVICEABILITY	100
H212	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	100
D84	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	100
D86	REVIEW PROGRESS OF AIRMEN IN CAREER DEVELOPMENT COURSES (CDC)	100
G155	PERFORM SPECIAL INSPECTIONS OF AIRCRAFT ELECTRICAL SYSTEMS	100
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	100
K455	PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	100
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	100
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	100
H194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	100
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	100
B23	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	100
K418	CLEAN CONNECTOR PLUGS	100
K439	CRIMP WIRES TO SPLICES AND TERMINALS	100
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	100
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	100
1301	ISOLATE MALFUNCTIONS ON SEAT POSITIONING CIRCUITS	100
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	100
K522		100
D78	DIRECT OR IMPLEMENT OJT TRAINING PROGRAMS	80
E104	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST)	80

GROUP ID NUMBER AND TITLE: GRP399

Flightline Non-PCMO Personnel

GROUP SIZE: N=379

PERCENT OF SAMPLE: 21%

AVERAGE GRADE: E-4

AVERAGE TICF: 68 Months

AVERAGE TAFMS: 78 Months

TASKS		PERCENT MEMBERS PERFORMING

1234	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	98
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	
	CIRCUITS	98
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	97
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	97
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	97
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	97
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	
	CIRCUITS	96
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) ISOLATE MALFUNCTIONS ON NESA GLASS ANTI-ICING CIRCUITS INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	96
1292	ISOLATE MALFUNCTIONS ON NESA GLASS ANTI-ICING CIRCUITS	96
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	96
Н185	INSPECT ELECTRICAL BONDS OR GROUNDS	95
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	94
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	94
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	94
K522		94
K475	REMOVE OR INSTALL CONNECTOR PLUGS	93
	INSPECT NESA GLASS ANTI-ICING COMPONENTS	93
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	93
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	
	PANELS	92
	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	92
H163	INSPECT ALTERNATING CURRENT (AC) GENERATOR AND DISTRIBUTION	
	SYSTEM CIRCUIT COMPONENTS	92
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	91
H212	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	90
K508	REMOVE OR INSTALL RHEOSTATS	90
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	90
	ISOLATE MALFUNCTIONS ON TRANSFORMER-RECTIFIER (TR) CIRCUITS	90
	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	90
K479	CRIMP WIRES TO SPLICES AND TERMINALS	89
	INSPECT ANTI-SKID CIRCUIT COMPONENTS	89
	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	88
K523	REPLACE MICRO SWITCHES	88

GROUP ID NUMBER AND TITLE: GRP533 Line Supervisors

GROUP SIZE: N=61

PERCENT OF SAMPLE: 3%

AVERAGE GRADE: E-6

AVERAGE TICF: 122 Months

AVERAGE TAFMS: 132 Months

		PERCENT MEMBERS
TASKS		PERFORMING
1234	ISOLATE MALFUNCTINOS ON AC GENERATOR SYSTEMS	100
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	
	CIRCUITS	100
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	100
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	20
	RECORD)	98
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	98
1202	CIRCUITS	98 98
1292 E93	ISOLATE MALFUNCTIONS ON NESA GLASS ANTI-ICING CIRCUITS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	96 97
H163	INSPECT ALTERNATING CURRENT (AC) GENERATOR AND DISTRIBUTION	31
1103	SYSTEM CIRCUIT COMPONENTS	97
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	97
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	97
	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	97
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	97
	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	95
B21		25
	ACTIVITIES	95 25
B23	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	95 25
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	95 95
H214	INSPECT NESA GLASS ANTI-ICING CIRCUIT COMPONENTS	95 95
H185 H194	INSPECT ELECTRICAL BONDS OR GROUNDS INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	93
H194 H195	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS INSPECT EXTERNAL POWER SYSTEM CIRCUIT COMPONENTS	93
H164	INSPECT ANTI-SKID CIRCUIT COMPONENTS	92
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	92
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	92
1306	ISOLATE MALFUNCTIONS ON TRANSFORMER-RECTIFIER (TR) CIRCUITS	92
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS (AFSC	
	42350)	90
E105	MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT	•
	DATA DOCUMENT)	90
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	90
B39	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS HELPERS (AFSC 42330)	89

GROUP ID NUMBER AND TITLE: GRP466 FTD Trainers

GROUP SIZE: N=7

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-6

AVERAGE TICF: 159 Months

AVERAGE TAFMS: 162 Months

TASKS		PERCENT MEMBERS PERFORMING
D75	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	100
H212	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	100
H227	INSPECT TRANSFORMER-RECTIFIER (TR) CIRCUIT COMPONENTS	100
H164	INSPECT ANTI-SKID COMPONENTS	100
H195	INSPECT EXTERNAL POWER SYSTEM CIRCUIT COMPONENTS	100
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	100
H178	INSPECT CONSTANT SPEED DRIVE (CSD) CIRCUIT COMPONENTS	100
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	
	CJRCUITS	100
H162	INSPECT AIRCRAFT FLIGHT CONTROL CIRCUIT COMPONENTS	100
H229	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	100
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	100
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	100
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	100
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION CIRCUITS	100
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	200
	CIRCUITS	100
I 306	ISOLATE MALFUNCTIONS ON TRANSFORMER-RECTIFIER (TR) CIRCUITS	100
I 308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	100
1234	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	100
B23	COUNSEL PERSONEL ON PERSONAL OR MILITARY-RELATED MATTERS	100
1240	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	100
1276	ISOLATE MALFUNCTIONS ON FLAP AND SLAT CONTROL AND WARNING	
	CIRCUITS	100
н186	INSPECT ELECTRICAL OR AIR OPERATED STARTER CIRCUIT	
	COMPONENTS	100
1258		100
G149	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	100
1241	ISOLATE MALFUNCTIONS ON AIRCRAFT FLIGHT CONTROL CIRCUITS	100
1264	ISOLATE MALFUNCTIONS ON ELECTRICAL OR AIR OPERATED STARTER	100
	CIRCUITS	100
1288	ISOLATE MALFUNCTIONS ON JET ENGINE IGNITION SYSTEM CIRCUITS	100 100
1294	ISOLATE MALFUNCTIONS ON PRESSURE WARNING CIRCUITS	86
D70 D74	CONDUCT FIELD TRAINING DETACHMENT (FTD) CLASSROOM TRAINING COUNSEL TRAINES ON TRAINING PROGRESS	86
U/4	COUNSEL TRAINEES ON TRAINING PROGRESS	00

GROUP ID NUMBER AND TITLE: GRP407

Shift Supervisors

GROUP SIZE: N=8

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-5

AVERAGE TICF: 105 Months

AVERAGE TAFMS: 114 Months

		PERCENT MEMBERS
TASKS		PERFORMING
G149	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	100
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS (AFSC	100
E92	42350) COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	100
LJC	RECORD)	100
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION CIRCUITS	100
K475	REMOVE OR INSTALL CONNECTOR PLUGS	100
K53	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	100
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	100
1264	ISOLATE MALFUNCTIONS ON ELECTRICAL OR AIR OPERATED	100
	STARTER CIRCUITS	100
1243 1269	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	100 100
1209 1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	100
12/3	CIRCUITS	100
K500	REMOVE OR INSTALL NESA GLASS ANTI-ICING CIRCUIT COMPONENTS	
	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	100
1246	ISOLATE MALFUNCTIONS ON BATTERY CHARGER SYSTEM CIRCUITS	100
I234	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	88
E105	MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT	•
w 400	DATA DOCUMENT)	88
K439 I290	CRIMP WIRES TO SPLICES AND TERMINALS ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	88
1290	CIRCUITS	88
1258	ISOLATE MALFUNCTIONS OF CONSTANT SPEED DRIVE (CSD) CIRCUITS	88
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	00
NOLO	PANELS	88
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	88
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	88
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	88
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	88
E90	COMPLETE AF FORMS 1492 (DANGER)	88
1292 K525	ISOLATE MALFUNCTIONS ON NESA GLASS ANTI-ICING CIRCUITS REWIRE AIRCRAFT ELECTRICAL SYSTEMS	88 88
1241	ISOLATE MALFUNCTIONS ON AIRCRAFT FLIGHT CONTROL CIRCUITS	88
1641	TOOLATE TALE CHOTTONS ON ATMORALT TETAIN CONTROL CIRCUITS	00

GROUP ID NUMBER AND TITLE: GRP468

MAC General Flightline Maintenance

Personnel

GROUP SIZE: N=26

PERCENT OF SAMPLE: 1%

AVERAGE GRADE: E-3

AVERAGE TICF: 25 Months

AVERAGE TAFMS: 31 Months

		PERCENT
TASKS		MEMBERS PERFORMING
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	100
I 273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	
	CIRCUITS	96
I243		96
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	96
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	96
K475		92
	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	92
H214	INSPECT NESA GLASS ANTI-ICING CIRCUIT COMPONENTS	92
	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	92
I 254		
	CIRCUITS	9 2
1292		92
	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	88
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	88
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	88
	INSPECT ANTI-SKID CIRCUIT COMPONENTS	88
	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	88
	INSPECT ELECTRICAL BONDS OR GROUNDS	88
E92		
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	85
	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	85
1239		05
	CIRCUITS	85
	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	85
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL PANELS	85
1280	ISOLATE MALFUNCTIONS ON GALLEY OR LATRINE ELECTRICAL CIRCUITS	85
K525	REWIRE AIRCRAFT ELECTRICAL SYST MS	85
1200	TOOLSTE MALEUNCTIONS ON HADNING LIGHT CIDCHITS	81
H5U3	INSPECT GALLEY OR LATRINE ELECTRICAL CIRCUIT COMPONENTS	81
H1 Q5	INSPECT EXTERNAL POWER SYSTEM CIRCUIT COMPONENTS	81
	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	77
11663	THOIRD HAMITING EIGHT GIRGOTT GOTH GREATS	• •

GROUP ID NUMBER AND TITLE: GRP416

Advanced Reconnaissance Aircraft

Maintenance Personnel

GROUP SIZE: N=6

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-6

AVERAGE TICF: 133 Months

AVERAGE TAFMS: 140 Months

		PERCENT
		MEMBERS
TASKS		PERFORMING
1710110		<u> </u>
H160	INSPECT AIRCRAFT BATTERIES	100
H229	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	100
1286	INSPECT AIRCRAFT BATTERIES INSPECT WARNING LIGHT CIRCUIT COMPONENTS ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	100
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	100
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	100
1278	ISOLATE MALFUNCTIONS ON FUEL CONTROL AND WARNING CIRCUITS	100
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	
	CIRCUITS	100
K454		100
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	100
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	100
1240	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	100
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	100
E95	COMPLETE CONDITION TAGS AND LABELS	100
K447	INSPECT CONTROL BOXES OR JUNCTION BOXES FOR BURNING OR	
	CHAFFING	100
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	100
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	100
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	100
K506	REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS	100
D71	CONDUCT OJT	100
B21	COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE	
	ACTIVITIES	100
K482	REMOVE OR INSTALL EXTERNAL POWER SYSTEM CONTROL COMPONENTS	100
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	
	PANELS	100
K525	REWIRE AIRCRAFT ELECTRICAL SYSTEMS DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION COMPLETE AS FORMS 1492 (DANCER)	100
075	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	100
E90	COMPLETE AF FORMS 1492 (DANGER)	100
K508	REMOVE OR INSTALL RHEOSTATS	100
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	100
C54	EVALUATE MAINTENANCE AND USE OF WORKSPACE, EQUIPMENT, OR	
	SUPPLIES	100
	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	
K413	ASSEMBLE OR DISASSEMBLE SILVER ZINC BATTERIES	83

GROUP ID NUMBER AND TITLE: GRP349

Basic Aircraft Electrical Systems

Maintenance Personnel

GROUP SIZE: N=73

PERCENT OF SAMPLE: 4%

AVERAGE GRADE: E-4

AVERAGE TICF: 43 Months

AVERAGE TAFMS: 52 Months

TACVC		PERCENT MEMBERS
TASKS		PERFORMING
Н185	INSPECT ELECTRICAL BONDS OR GROUNDS	99
E93		97
K522		97
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	96
E92		
	RECORD)	95
1273		
	CIRCUITS	9 5
K475		9 5
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	95
V 410	PANELS CLEAN CONNECTOR DUICS	95 95
K418	CLEAN CONNECTOR PLUGS CRIMP WIRES TO SPLICES AND TERMINALS	93
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	33 3
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	92
	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	
	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	89
	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	89
	REWIRE AIRCRAFT ELECTRICAL SYSTEMS	89
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	88
1261	ISOLATE MALFUNCTIONS ON DC GENERATOR SYSTEMS	88
	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	88
	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	88
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	88
H161	INSPECT AIRCRAFT DIRECT CURRENT (DC) POWER GENERATOR	0.5
E10E	CIRCUIT AND DISTRIBUTION CIRCUIT COMPONENTS	85
E105	MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT DATA DOCUMENT)	84
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	84
K523	REPLACE MICRO SWITCHES	84
	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	81
	REMOVE OR INSTALL RHEOSTATS	81
	INSPECT DC GENERATOR SYSTEM CIRCUIT COMPONENTS	79
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	78

GROUP ID NUMBER AND TITLE: GRP326

C-5A Aircraft Systems Maintenance

Specialists

GROUP SIZE: N=5

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-4

AVERAGE TICF: 38 Months

AVERAGE TAFMS: 42 Months

TASKS		PERCENT MEMBERS PERFORMING
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	100
K475	REMOVE OR INSTALL CONNECTOR PLUGS	100
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	100
E92	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS REMOVE OR INSTALL CONNECTOR PLUGS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	PECOPO)	100
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	100
K418	CLEAN CONNECTOR PLUGS	100
H185	INSPECT ELECTRICAL BONDS OR GROUNDS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	100
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	100
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	100
E90	COMPLETE AF FORMS 1492 (DANGER)	100
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	100
K505	CIRCUITS REMOVE OR INSTALL PROXIMITY SENSORS	100
K3U3	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	100
	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	100
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS ISOLATE MALFUNCTIONS ON AUXILIARY POWER UNIT (APU)	100
1244	COMPONENTS	100
1239		100
1233	CIRCUITS	100
1254	ISOLATE MALFUNCTIONS ON CARGO DOOR CONTROL AND WARNING	
100.	CIRCUITS	100
I277	ISOLATE MALFUNCTIONS ON FLIGHT CONTROL ASYMMETRY SYSTEM	
	CIRCUITS	100
1240	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	100
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	80
G149	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	80
	INSPECT PROXIMITY SENSORS	80
K487	REMOVE OR INSTALL FIRE OR OVERHEAT LOOPS	80
K442	FABRICATE ELECTRICAL LEADS	80
	ISOLATE MALFUNCTIONS ON AC GENERATORS SYSTEMS	80
	INSPECT AIRCRAFT BATTERIES	80
	FABRICATE WIRING HARNESSES	80
	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	80
H219	INSPECT RAM AIR TURBINE (RAT) CIRCUIT COMPONENTS	80

GROUP ID NUMBER AND TITLE: GRP346

Transient Aircraft Maintenance

Personnel

GROUP SIZE: N=61

PERCENT OF SAMPLE: 3%

AVERAGE GRADE: E-4

AVERAGE TICF: 63 Months

AVERAGE TAFMS: 71 Months

TASKS		PERCENT MEMBERS PERFORMING
1273 1247 K503 K475 1239	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION CIRCUITS ISOLATE MALFUNCTIONS ON BATTERY DISTRIBUTION CIRCUITS REMOVE OR INSTALL PINS ON CONNECTOR PLUGS REMOVE OR INSTALL CONNECTOR PLUGS ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION CIRCUITS ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	100 100 98 98
1240 1290	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING CIRCUITS	98 98
E93 H197 I308	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING CIRCUITS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS INSPECT ELECTRICAL BONDS OR GROUNDS ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS CLEAN CONNECTOR PLUGS INSPECT AIRCRAFT DIRECT CURRENT (DC) POWER GENERATOR CIRCUIT AND DISTRIBUTION CIRCUIT COMPONENTS POT CONNECTORS OR RELAYS	98 98 98
H185 I234	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS INSPECT ELECTRICAL BONDS OR GROUNDS ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS INSPECT EXTERIOD LIGHTING CIRCUIT COMPONENTS	98 98 97 97
K522 1269 K418	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS CLEAN CONNECTOR PLUGS	97 97 97
H161 K456	INSPECT AIRCRAFT DIRECT CURRENT (DC) POWER GENERATOR CIRCUIT AND DISTRIBUTION CIRCUIT COMPONENTS POT CONNECTORS OR RELAYS	97 97
E92 H229 I286 H208	POT CONNECTORS OR RELAYS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTIN RECORD) INSPECT WARNING LIGHT CIRCUIT COMPONENTS ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS INSPECT AIRCRAFT FLIGHT CONTROL CIRCUIT COMPONENTS INSPECT DC GENERATOR SYSTEM CIRCUIT COMPONENTS INSPECT TRANSFORMER-RECTIFIER (TR) CIRCUIT COMPONENTS CRIMP WIRES TO SPLICES AND TERMINALS	95 95 95 95
H162 H182 H227 439	INSPECT AIRCRAFT FLIGHT CONTROL CIRCUIT COMPONENTS INSPECT DC GENERATOR SYSTEM CIRCUIT COMPONENTS INSPECT TRANSFORMER-RECTIFIER (TR) CIRCUIT COMPONENTS CRIMP WIRES TO SPLICES AND TERMINALS INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	95 95 95 93
H212 K401 K508	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS REMOVE OR INSTALL RHEOSTATS ISOLATE MALFUNCTIONS ON AIRCRAFT FLIGHT CONTROL CIRCUITS	93 93 93 93

GROUP ID NUMBER AND TITLE: GRP249

Troubleshooting and Maintenance Cluster

GROUP SIZE: N=200

PERCENT OF SAMPLE: 11%

AVERAGE GRADE: E-4

AVERAGE TICF: 45 Months

AVERAGE TAFMS: 54 Months

TASKS		PERCENT MEMBERS PERFORMING
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION CIRCUITS	97
1260	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	95
	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	95 94
	TOOLATE MALEUNCTIONS ON LANDING CEAR CONTROL AND MARRIAGE	94
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING CIRCUITS	94
1 200	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	94
E93	COMPLETE AETO CODMC SEO (DEDADADLE TTEM DOCCESSIMO TAC)	
	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	92
1243 1239	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	92
1239	CIRCUITS	92
E92		
E92	RECORD)	91 90 90 90 89
K475	RECORD) REMOVE OR INSTALL CONNECTOR PLUGS	91
	REMOVE OR INSTALL CONNECTOR PLUGS REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	90
K503	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	90
K522	KEPLACE PUSES, CURKENI LIMITERS, UK CIRCUIT BREAKERS	90
	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	88
	KENOTE OK INSTALL ANTI-SKID CIRCOIT CONFORENTS	87
	CRIMP WIRES TO SPLICES AND TERMINALS ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	
I271 K526	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR	91
KJZO	CONTROL PANELS	79
V/11Q	CLEAN CONNECTOR PANELS	75 75
K455	PERFORM TOTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	75 75
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	73 72
K525	REWIRE AIRCRAFT ELECTRICAL SYSTEMS	72 71
	ISOLATE MALFUNCTIONS ON AIRCRAFT FLIGHT CONTROL CIRCUITS	
1241	ISOLATE MALFUNCTIONS ON ANTI-ICE OR DEICE ELECTRICAL	09
1242	CONTROL AND WARNING CIRCUITS	68
I 306	ISOLATE MALFUNCTIONS ON TRANSFORMER-RECTIFIER (TR) CIRCUITS	68
K487	REMOVE OR INSTALL FIRE OR OVERHEAT LOOPS	67
	ISOLATE MALFUNCTIONS ON BATTERY DISTRIBUTION CIRCUITS	67
1247 1278	ISOLATE MALFUNCTIONS ON FUEL CONTROL AND WARNING CIRCUITS	65
	ISOLATE MALFUNCTIONS ON CONSTANT SPEED DRIVE (CSD) CIRCUITS	64
1256 K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	63
ハサンサ	FEMIONS SOLDENEESS CONNECTOR INSERTIONS OF EXTRACTIONS	03

GROUP ID NUMBER AND TITLE: GRP358

Flightline Troubleshooting Personnel

GROUP SIZE: N=164

PERCENT OF SAMPLE: 9%

AVERAGE GRADE: E-4

AVERAGE TICF: 44 Months

AVERAGE TAFMS: 52 Months

		PERCENT MEMBERS
TASKS		PERFORMING
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION CIRCUITS	98
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	97
	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	96
1239		0.0
7000	CIRCUITS	96
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING CIRCUITS	96
E93		95
	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	95
I 308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	95
I 286		93
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	20
WE 00	RECORD)	92
	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	92 91
1240 K475	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION REMOVE OR INSTALL CONNECTOR PLUGS	91
K475	REMOVE OR INSTALL CONNECTOR FLOGS REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	91
K503		90
	CRIMP WIRES TO SPLICES AND TERMINALS	88
	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	84
K526		
	CONTROL PANELS	83
K455		77
	CLEAN CONNECTOR PLUGS	76 76
K525		76 7 4
	ISOLATE MALFUNCTIONS ON AIRCRAFT FLIGHT CONTROL CIRCUITS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	74 73
	ISOLATE MALFUNCTIONS ON BATTERY DISTRIBUTION CIRCUITS	73 73
	ISOLATE MALFUNCTIONS ON TRANSFORMER-RECTIFIER (TR) CIRCUITS	73
1242		
	CONTROL AND WARNING CIRCUITS	71
	ISOLATE MALFUNCTIONS ON FUEL CONTROL AND WARNING CIRCUITS	70
K487	REMOVE OR INSTALL FIRE OR OVERHEAT LOOPS	68
1264	ISOLATE MALFUNCTIONS ON ELECTRICAL OR AIR OPERATED STARTER CIRCUITS	67

GROUP ID NUMBER AND TITLE: GRP296 General Elec

General Electrical Systems Maintenance

and Troubleshooting

GROUP SIZE: N=20

PERCENT OF SAMPLE: 1%

AVERAGE GRADE: E-4

AVERAGE TICF: 47 Months

AVERAGE TAFMS: 57 Months

TASKS		PERCENT MEMBERS PERFORMING
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
LJL	RECUBER A TO TOKING SAS (MATHIERMINGS DATA OCCUPATION	95
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	95
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	95
K475	REMOVE OR INSTALL CONNECTOR PLUGS	90
	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) REMOVE OR INSTALL PINS ON CONNECTOR PLUGS REMOVE OR INSTALL CONNECTOR PLUGS ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION CIRCUITS	
	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION CIRCUITS CRIMP WIRES TO SPLICES AND TERMINALS INSPECT ELECTRICAL SYSTEMS FOR CORROSION CLEAN CONNECTOR PLUGS ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	90
K439	CRIMP WIRES TO SPLICES AND TERMINALS	85
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	85
K418	CLEAN CONNECTOR PLUGS	85
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	85
K455	PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	80
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	80
I269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	80
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	80
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND	
	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING CIRCUITS ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS INSPECT ELECTRICAL BONDS OR GROUNDS REMOVE OR INSTALL FIRE OR OVERHEAT LOOPS ISOLATE MALFUNCTIONS ON AIR REFUELING CIRCUITS INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE ASSEMBLE OR DISASSEMBLE CONNECTOR DINGS	80
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	80
1234	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	75
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	70
K487	REMOVE OR INSTALL FIRE OR OVERHEAT LOOPS	70
1237	ISOLATE MALFUNCTIONS ON AIR REFUELING CIRCUITS	70
G149	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	65
NTUL	ASSEMBLE ON DISASSEMBLE COMMECTON FLOOD	0.5
H1 97	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	65
K271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	65
K510	REMOVE OR INSTALL ROTATING BEACONS, LANDING LIGHTS, OR	
	INVI FIGUIO	60
G155	PERFORM SPECIAL INSPECTIONS OF AIRCRAFT ELECTRICAL SYSTEMS	60
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	
LV	PANELS	60
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	••
	CIRCUITS	60
E98		55

GROUP ID NUMBER AND TITLE: GRP294

Avionics Maintenance Personnel

GROUP SIZE: N=5

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-3

AVERAGE TICF: 31 Months

AVERAGE TAFMS: 36 Months

		PERCENT MEMBERS
TASKS		PERFORMING
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	4.5.5
	RECORD)	100
K439	CRIMP WIRES TO SPLICES AND TERMINALS	100
	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	100
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	100
1293	ISOLATE MALFUNCTIONS ON NOSE-WHEEL STEERING CIRCUITS	100
E101	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	100
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) INSPECT CONTROL BOXES OR JUNCTION BOXES FOR BURNING OR	100
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING IAG)	100
K447	INSPECT CONTROL BOXES OR JUNCTION BOXES FOR BURNING OR	100
V 41.0	CHAFFING	100
K418		100
	REWIRE AIRCRAFT ELECTRICAL SYSTEMS	100
K523	REPLACE MICRO SWITCHES	100
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	100
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	100
H165	PANELS INSPECT AUXILIARY POWER UNIT (APU) CIRCUIT COMPONENTS	100
	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	100
1286 1241	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS ISOLATE MALFUNCTIONS ON AIRCRAFT FLIGHT CONTROL CIRCUITS	
	ADJUST PROXIMITY SENSORS	80
	ISOLATE MALFUNCTIONS ON PROXIMITY SENSORS	80 80
	INSPECT PROXIMITY SENSORS	80 80
H217	INSPECT PROXIMITY SENSORS INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT	80
пити	COMPONENTS	80
E105	MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT	00
LIUJ	DATA DOCUMENT)	80
K456	POT CONNECTORS OR RELAYS	80
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	80
I290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	00
1230	CIRCUITS	80
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	80
	INSPECT GALLEY OR LATRINE ELECTRICAL CIRCUIT COMPONENTS	
	ISOLATE MALFUNCTIONS ON FUEL CONTROL AND WARNING CIRCUITS	80
K5U3	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	80
1703	NEIGHE ON THE THE ON COMMECTOR LEGGS	-

GROUP ID NUMBER AND TITLE: GRP224 In-Shop Maintenance Cluster

GROUP SIZE: N=142

PERCENT OF SAMPLE: 8%

AVERAGE GRADE: E-4

AVERAGE TICF: 39 Months

AVERAGE TAFMS: 53 Months

TACKC		PERCENT MEMBERS
TASKS		PERFORMING
K408	ASSEMBLE OR DISASSEMBLE NICKEL-CADMIUM BATTERIES	95
K473	REMOVE OR INSTALL CELLS ON NICKEL-CADMIUM BATTERIES	94
K434	CLEAN NICKEL-CADMIUM BATTERIES	93
K439	CRIMP WIRES TO SPLICES AND TERMINALS	93
K475	REMOVE OR INSTALL CONNECTOR PLUGS	92
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	92
	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	89
	INSPECT AIRCRAFT BATTERIES	89
K522		88
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	87
	CLEAN CONNECTOR PLUGS	87
	REMOVE OR INSTALL CONNECTORS ON NICKEL-CADMIUM BATTERIES	86
K526		0.4
	PANELS	84
K455		82
	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	81
	INSPECT ELECTRICAL BONDS OR GROUNDS	81
	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	81
J388		00
	BATTERIES	80
L548		77 76
	CLEAN LEAD ACID BATTERIES	76 76
	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	76 76
	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	76
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	76 75
L527	INSPECT SHOP TEST EQUIPMENT OR TEST STANDS	75 74
	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	74
1273	CIRCUITS	70
J352	BENCH CHECK EXTERNAL LIGHTING CIRCUIT COMPONENTS	70
K506	REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS	69
E101	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	68
E95	COMPLETE CONDITION TAGS AND LABELS	68
	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	67
	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	67

GROUP ID NUMBER AND TITLE: GRP252

POMO/Fighter Maintenance Personnel

GROUP SIZE: N=103

PERCENT OF SAMPLE: 6%

AVERAGE GRADE: E-4

AVERAGE TICF: 41 Months

AVERAGE TAFMS: 55 Months

** **********************************		PERCENT MEMBERS
TASKS		PERFORMING
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) REMOVE OR INSTALL CELLS ON NICKEL-CADMIUM BATTERIES ASSEMBLE OR DISASSEMBLE NICKEL-CADMIUM BATTERIES REMOVE OR INSTALL PINS ON CONNECTOR PLUGS REMOVE OR INSTALL CONNECTOR PLUGS CLEAN NICKEL-CADMIUM BATTERIES CRIMP WIRES TO SPINCES AND TERMINALS	98
K473	REMOVE OR INSTALL CELLS ON NICKEL-CADMIUM BATTERIES	97
K408	ASSEMBLE OR DISASSEMBLE NICKEL-CADMIUM BATTERIES	95
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	95
K475	REMOVE OR INSTALL CONNECTOR PLUGS	95
	CLEAN NICKEL-CADMIUM BATTERIES	94
K439	CRIMP WIRES TO SPLICES AND TERMINALS	91
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	89
K418		89
K526		
	PANELS	88
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	88
H160	INSPECT AIRCRAFT BATTERIES	87
K476	REMOVE OR INSTALL CONNECTORS ON NICKEL-CADMIUM BATTERIES	87
	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	87
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	85
J388	PERFORM CAPACITANCE TESTS OR SERVICES ON NICKEL-CADMIUM	
	BATTERIES	84
K455	PERFORM TOTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	84
K433	CLEAN LEAD ACID BATTERIES ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS MAINTAIN BATTERY CHARGERS	83
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	83
H194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	83
L548	MAINTAIN BATTERY CHARGERS	83
L527	INSPECT SHOP TEST EQUIPMENT OR TEST STANDS	82
E95	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS MAINTAIN BATTERY CHARGERS INSPECT SHOP TEST EQUIPMENT OR TEST STANDS COMPLETE CONDITION TAGS AND LABELS BENCH CHECK EXTERNAL CIRCUIT COMPONETS INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	81
J352	BENCH CHECK EXTERNAL CIRCUIT COMPONETS	80
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	80
K506	REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS	79
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	77
EIOI	INVENTURY EQUIPMENT, TOOLS, OR SUPPLIES	77
1273		
	CIRCUITS	77 76
H197		
L535	ISOLATE MALFUNCTIONS ON BATTERY CHARGERS	75 74
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	74

GROUP ID NUMBER AND TITLE: GRP517

Training Center Test Equipment

DEDCENT

Maintenance Personnel

GROUP SIZE: N=6

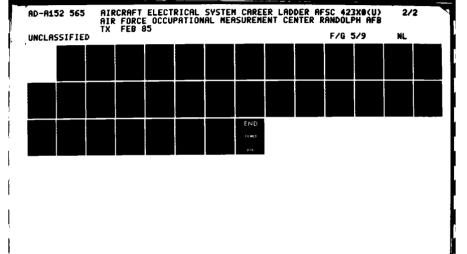
PERCENT OF SAMPLE: Less than 1%

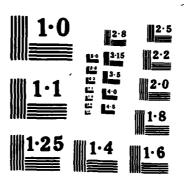
AVERAGE GRADE: E-4

AVERAGE TICF: 36 Months

AVERAGE TAFMS: 42 Months

		PERCENT
TASKS		MEMBERS PERFORMING
INSKS		FERTORPING
K433	CLEAN LEAD ACID BATTERIES	100
K439	CRIMP WIRES TO SPLICES AND TERMINALS	100
K475	REMOVE OR INSTALL CONNECTOR PLUGS	100
K434	CLEAN NICKEL-CADMIUM BATTERIES	100
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	100
K408	ASSEMBLE OR DISASSEMBLE NICKEL-CADMIUM BATTERIES	100
K473	REMOVE OR INSTALL CELLS ON NICKEL-CADMIUM BATTERIES	100
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLOGS	100
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	100
K476	REMOVE OR INSTALL CONNECTORS ON NICKEL-CADMIUM BATTERIES	100
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	100
K446	FABRICATE WIRING HARNESSES	100
K418	CLEAN CONNECTOR PLUGS	100
K507	REMOVE OR INSTALL RESISTORS OR CAPACITORS ON CONVENTIONAL	100
K506	CIRCUITS REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS	100 100
E93	COMPLETE AETO EDDMC 250 (DEDADADIE ITEM DEOCESSING TAC)	100
	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) ISOLATE MALFUNCTIONS ON BATTERY CHARGERS	100
E95	COMPLETE CONDITION TAGS AND LABELS	100
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	100
K453	PERFORM SOLDERING ON SOLID-STATE CIRCUIT BOARDS	100
E104	MAKE ENTOISE ON AS ECOMS 2005 (ISSUE/TIIDN IN DECHIEST)	100
1246	IGNIATE MALEUNCTIONS ON RATTERY CHARGER SYSTEM CIRCUITS	100
	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST) ISOLATE MALFUNCTIONS ON BATTERY CHARGER SYSTEM CIRCUITS ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	100
K456	POT CONNECTORS OR RELAYS	100
H160		83
J387	INSPECT AIRCRAFT BATTERIES PERFORM CAPACITANCE TESTS ON LEAD ACID BATTERIES PERFORM CAPACITANCE TESTS OR SERVICES ON NICKEL-CADMIUM	83
J388	PERFORM CAPACITANCE TESTS OR SERVICES ON NICKEL-CADMIUM	00
0500	BATTERIES	83
L548	MAINTAIN BATTERY CHARGERS	83
L554	REWIRE OR REPLACE COMPONENTS ON LOCALLY MANUFACTURED TEST	- -
	EQUIPMENT	83
K469	REMOVE OR INSTALL BRUSHES OR BRUSH HOLDERS IN MOTORS	83
K442	FABRICATE ELECTRICAL LEADS	83





GROUP ID NUMBER AND TITLE: GRP381

Bench Checking Specialists

GROUP SIZE: N=15

PERCENT OF SAMPLE: 1%

AVERAGE GRADE: E-4

AVERAGE TICF: 37 Months

AVERAGE TAFMS: 55 Months

		PERCENT MEMBERS
TASKS		PERFORMING
	ASSEMBLE OR DISASSEMBLE NICKEL-CADMIUM BATTERIES REMOVE OR INSTALL CELLS ON NICKEL-CADMIUM BATTERIES CLEAN NICKEL-CADMIUM BATTERIES COMPLETE CONDITION TAGS AND LABELS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) REMOVE OR INSTALL CONNECTORS ON NICKEL-CADMIUM BATTERIES INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES REMOVE OR INSTALL CONNECTOR PLUGS CRIMP WIRES TO SPLICES AND TERMINALS BENCH CHECK EXTERNAL LIGHTING CIRCUIT COMPONENTS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) REMOVE OR INSTALL PINS ON CONNECTOR PLUGS BENCH INTERNAL LIGHTING CIRCUIT COMPONENTS INSPECT AIRCRAFT BATTERIES PERFORM CAPACITANCE TESTS OR SERVICES ON NICKEL-CADMIUM BATTERIES BENCH CHECK CONSTANT SPEED DRIVE (CSD) COMPONENTS MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST) MAINTAIN BATTERY CHARGERS COMPLETE SUPPLY FORMS OR PARTS REQUESTS CLEAN CONNECTOR PLUGS INSPECT SHOP TEST EQUIPMENT OR TEST STANDS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS CLEAN LEAD ACID BATTERIES INSPECT PARTS RECEIVED FOR SERVICEABILITY PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS INSPECT BATTERY CHARGER SYSTEM CIRCUIT COMPONENTS INSPECT BATTERY CHARGER SYSTEM CIRCUIT COMPONENTS INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS FABRICATE WIRING HARNESSES INSPECT ELECTRICAL BONDS OR GROUNDS SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	100
K408	ASSEMBLE OR DISASSEMBLE NICKEL-CADMIUM BAILERIES	100
N4/3	CLEAN NICKEL CADMINA DATTEDIES	100
N434 FOS	CLEAN NICKEL-CAUMIUM DAITERIES	93
E03	COMPLETE CONDITION INGS AND EMBLES COMPLETE AFTO FORMS 350 (PEDADARIF ITEM DDOCESSING TAG)	93
K476	REMOVE OR INSTALL CONNECTORS ON NICKEL-CADMILIM RATTERIES	93
F101	INVENTORY FOILIPMENT, TOOLS, OR SUPPLIES	93
K475	REMOVE OR INSTALL CONNECTOR PLUGS	93
K439	CRIMP WIRES TO SPLICES AND TERMINALS	93
J352	BENCH CHECK EXTERNAL LIGHTING CIRCUIT COMPONENTS	93
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	87
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	87
J369	BENCH INTERNAL LIGHTING CIRCUIT COMPONENTS	87
H160	INSPECT AIRCRAFT BATTERIES	80
J388	PERFORM CAPACITANCE TESTS OR SERVICES ON NICKEL-CADMIUM	
	BATTERIES	80
J336	BENCH CHECK CONSTANT SPEED DRIVE (CSD) COMPONENTS	80
E104	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST)	80
L548	MAINTAIN BATTERY CHARGERS	80
£98	COMPLETE SUPPLY FORMS OR PARTS REQUESTS	80
K418	THEORET CHOR TEST FOLLOWENT OR TEST STANDS	80
L32/	TUDAECT DUCK TEDI E MOTALELLO DITTE	00 72
N401	INCORECT INTEDIAD LIGHTING CIDCHIT COMPONENTS	73 73
K433	CLEAN LEAD ACID RATTERIES	73
G152	INSPECT PARTS RECEIVED FOR SERVICEARILITY	67
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	67
H167	INSPECT BATTERY CHARGER SYSTEM CIRCUIT COMPONENTS	67
H194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	67
K446	FABRICATE WIRING HARNESSES	67
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	67
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	
	PANELS	67
	BENCH CHECK WARNING LIGHT CIRCUIT COMPONENTS	60
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	60

GROUP ID NUMBER AND TITLE: GRP254 Non-POMO Maintenance and Inspection

Personnel

GROUP SIZE: N=32 PERCENT OF SAMPLE: 2%

AVERAGE GRADE: E-4 AVERAGE TICF: 30 Months

AVERAGE TAFMS: 46 Months

		PERCENT
		MEMBERS
TASKS		PERFORMING
K439	CRIMP WIRES TO SPLICES AND TERMINALS ASSEMBLE OR DISASSEMBLE NICKEL-CADMIUM BATTERIES REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS REMOVE OR INSTALL CELLS ON NICKEL-CADMIUM BATTERIES	97
K408	ASSEMBLE OR DISASSEMBLE NICKEL-CADMIUM BATTERIES	94
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	94
K473	REMOVE OR INSTALL CELLS ON NICKEL-CADMIUM BATTERIES	91
H160		
K476	REMOVE OR INSTALL CONNECTORS ON NICKEL-CADMIUM BATTERIES	91
K475	REMOVE OR INSTALL CONNECTOR PLUGS	91
K434		88
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	81
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	81
K455	PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	81
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	78
K418	CLEAN CONNECTOR PLUGS	78
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	78
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	75
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	75
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR	
	CLEAN CONNECTOR PLUGS ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS REMOVE OR INSTALL PINS ON CONNECTOR PLUGS SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL PANELS INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	75
Н197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	75
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	72
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	69
HZUX	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	09
1292	ISOLATE MALFUNCTIONS ON NESA GLASS ANTI-ICING CIRCUITS	69
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	66
J388	PERFORM CAPACITANCE TESTS OR SERVICES ON NICKEL-CADMIUM	
	BATTERIES	63
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	
	CIRCUITS	63
H227	INSPECT TRANSFORMER-RECTIFIER (TR) CIRCUIT COMPONENTS	63
K508	REMOVE OR INSTALL RHEOSTATS	59
H214	INSPECT NESA GLASS ANTI-ICING CIRCUIT COMPONENTS	59
K523		59
	REWIRE AIRCRAFT ELECTRICAL SYSTEMS	59
K433	CLEAN LEAD ACID BATTERIES	56

GROUP ID NUMBER AND TITLE: GRP317 Battery Maintenance Specialists

GROUP SIZE: N=6 PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-3 AVERAGE TICF: 25 Months

AVERAGE TAFMS: 38 Months

		PERCENT MEMBERS
TASKS		PERFORMING
J388	PERFORM CAPACITANCE TESTS OR SERVICES ON NICKEL-CADMIUM BATTERIES REMOVE OR INSTALL CELLS ON NICKEL-CADMIUM BATTERIES ASSEMBLE OR DISASSEMBLE NICKEL-CADIUM BATTERIES INSPECT AIRCRAFT BATTERIES CRIMP WIRES TO SPLICES AND TERMINALS	100
V470	BATTERIES	100
K473	REMOVE OR INSTALL CELLS ON NICKEL-CAUMIUM BATTERIES	100
K408	ASSEMBLE OR DISASSEMBLE NICKEL-CADIUM BATTERIES	100
	INSPECT AIRCRAFT BATTERIES	100
K439	CKIMP MIKES IN STRICES AND LEGATIONES	100
K4/0	REMOVE OK INSTALL CONNECTORS ON MICKEL-CADMIUM DATIERIES	100
KOZZ	CLEAN MICHEL CARMING DATTERIES	100
K434	CLEAN NICKEL-CHUMIUM DAITERIES	93 9 3
K433	CLEAN LEAU ACTU DATTERIES	63 62
15/10	MAINTAIN DATTEDY CHARCEDS	93 93
LJ40	DEDECOM TOTO MODICIOATIONS OF AIDCDART ELECTDICAL SYSTEMS	#3
K433	INCOCCT CIDE AND OVERVEAT DETECTION CIRCUIT COMPONENTS	83
H3U0	CRIMP WIRES TO SPLICES AND TERMINALS REMOVE OR INSTALL CONNECTORS ON NICKEL-CADMIUM BATTERIES REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS CLEAN NICKEL-CADMIUM BATTERIES CLEAN LEAD ACID BATTERIES REMOVE OR INSTALL CONNECTOR PLUGS MAINTAIN BATTERY CHARGERS PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	#3
K526	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	00
KJZU	DANCIC	83
K453	DEDECION SOI DEDING ON SOI ID-STATE CIDCUIT ROADOS	83
.1397	DEDECOM CADACITANCE TESTS ON LEAD ACID RATTERIES	67
K506	REMOVE OR INSTALL RELAYS IN CONTROL ROYES OR PANELS	67
K200	DEMOVE OF INSTALL PINS ON CONNECTOR PILIGS	67
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	67
K401	INSPECT CONTROL ROYES OF THINCTION ROYES FOR RIDNING OF	• • • • • • • • • • • • • • • • • • • •
N447	CHAFFING	67
1535	ISOLATE MALEUNCTIONS ON BATTERY CHANGERS	67
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	•
	RECORD)	67
1308	ISOLATE MALEUNCTIONS ON WARNING LIGHT CIRCUITS	67
K513	REMOVE OR INSTALL SOLID-STATE COMPONENTS ON PRINTED CIRCUIT	•
	BOARDS	67
K512	REMOVE OR INSTALL SOLID-STATE CIRCUIT BOARDS	67
K446	FABRICATE WIRING HARNESSES	67
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	67
K402	ASSEMBLE OR DISASSEMBLE CONTROL BOXES	50
K403	ASSEMBLE OR DISASSEMBLE CONTROL PANELS	50
K454	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL PANELS PERFORM SOLDERING ON SOLID-STATE CIRCUIT BOARDS PERFORM CAPACITANCE TESTS ON LEAD ACID BATTERIES REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS REMOVE OR INSTALL PINS ON CONNECTOR PLUGS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS INSPECT CONTROL BOXES OR JUNCTION BOXES FOR BURNING OR CHAFFING ISOLATE MALFUNCTIONS ON BATTERY CHANGERS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS REMOVE OR INSTALL SOLID-STATE COMPONENTS ON PRINTED CIRCUIT BOARDS REMOVE OR INSTALL SOLID-STATE CIRCUIT BOARDS FABRICATE WIRING HARNESSES ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS ASSEMBLE OR DISASSEMBLE CONTROL BOXES ASSEMBLE OR DISASSEMBLE CONTROL PANELS PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	50

GROUP ID NUMBER AND TITLE: GRP199 Troubleshooting and Inspection Cluster

GROUP SIZE: N=30 PERCENT OF SAMPLE: 2%

AVERAGE GRADE: E-4 AVERAGE TICF: 48 Months

AVERAGE TAFMS: 67 Months

		PERCENT MEMBERS
TASKS		PERFORMING
INDKO		FERIORATIO
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	90
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	
	CIRCUITS	90
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	87
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	
	CIRCUITS	87
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	83
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	80
1234		77
	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	77
H212	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	77
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	77
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	77
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	77
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	73
	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	73
H163	INSPECT ALTERNATING CURRENT (AC) GENERATOR AND	
	DISTRIBUTION SYSTEM CIRCUIT COMPONENTS	73
H224	INSPECT SPEED BRAKE CONTROL CIRCUIT COMPONENTS	73
	ISOLATE MALFUNCTIONS ON INTERNAL CIRCUITS	70
	ISOLATE MALFUNCTIONS ON SPEED BRAKE CONTROL CIRCUITS	70
	INSPECT ANTI-SKID CIRCUIT COMPONENTS	70
	ISOLATE MALFUNCTIONS ON NOSE-WHEEL STEERING CIRCUITS	67
-	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	67
	ISOLATE MALFUNCTIONS ON AIR REFUELING CIRCUITS	67
	INSPECT ELECTRICAL BONDS OR GROUNDS	67
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	60
G149	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	57
1240	120Falf Warrancilou2 on alkckarl of Lomek Dizikibaliou	57
E105	MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT	
	DATA DOCUMENT)	53
1258	ISOLATE MALFUNCTIONS OF CONSTANT SPEED DRIVE (CSD)	
	CIRCUITS	53
K439	CRIMP WIRES TO SPLICES AND TERMINALS	53

GROUP ID NUMBER AND TITLE: GRP384

Overseas OV-10 Maintenance Personnel

GROUP SIZE: N=5

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-4

AVERAGE TICF: 37 Months

AVERAGE TAFMS: 50 Months

		PERCENT MEMBERS
TASKS		PERFORMING
VE 20	COMMO LITORO TO COLICEO AND TERMINALO	100
K539 K401		100 100
K401 K522		100
1290		100
1290	CIRCUITS	100
K475		100
K508	REMOVE OR INSTALL RHEOSTATS	100
K510	REMOVE OR INSTALL ROTATING BEACONS, LANDING LIGHTS, OR TAXI	100
111.00	LIGHTS	100 100
H160		100
	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	100
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL PANELS	100
1240	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	100
	POT CONNECTORS OR RELAYS	100
	ISOLATE MALFUNCTIONS ON FLAP AND SLAT CONTROL AND WARNING	
	CIRCUITS	80
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	80
E105		
	DATA DOCUMENT)	80
1261	ISOLATE MALFUNCTIONS ON DC GENERATOR SYSTEMS	80
	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	80
K503		80
	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	80
	ISOLATE MALFUNCTIONS ON AIRCRAFT FLIGHT CONTROL CIRCUITS	80
	ISOLATE MALFUNCTIONS ON THROTTLE POSITION WARNING CIRCUITS	80
H161	INSPECT AIRCRAFT DIRECT CURRENT (DC) POWER GENERATOR	80
500	CIRCUIT AND DISTRIBUTION CIRCUIT COMPONENTS	
E92		80 80
E98	COMPLETE SUPPLY FORMS OR PARTS REQUESTS ISOLATE MALFUNCTIONS ON BATTERY DISTRIBUTION CIRCUITS	80 80
K418		80
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	00
12/3	CIRCUITS	80
FQ3	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	80
	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST)	60
,	2	* *

GROUP ID NUMBER AND TITLE: GRP387

Logistics Support Specialists

GROUP SIZE: N=10

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-4

AVERAGE TICF: 60 Months

AVERAGE TAFMS: 70 Months

		PERCENT
TASKS		MEMBERS PERFORMING
THORS		PERFORMING
J336	BENCH CHECK CONSTANT SPEED DRIVE (CSD) COMPONENTS	100
1258	ISOLATE MALFUNCTIONS OF CONSTANT SPEED DRIVE (CSD) CIRCUITS	
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	100
	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	100
K418	CLEAN CONNECTOR PLUGS	100
J384		
	CONVENTIONAL COMPONENTS	100
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	100
K512	REMOVE OR INSTALL SOLID-STATE CIRCUIT BOARDS	100
K475	REMOVE OR INSTALL CONNECTOR PLUGS	100
E95	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS REMOVE OR INSTALL SOLID-STATE CIRCUIT BOARDS REMOVE OR INSTALL CONNECTOR PLUGS COMPLETE CONDITION TAGS AND LABELS PERFORM SOLDERING ON SOLID-STATE CIRCUIT BOARDS CRIMP WIRES TO SPLICES AND TERMINALS	100
K453	PERFORM SOLDERING ON SOLID-STATE CIRCUIT BOARDS	100
	FABRICATE WIRING HARNESSES	100
K526		100
	PANELS	100
L527	INSPECT SHOP TEST EQUIPMENT OR TEST STANDS	100
E92		100
500	RECORD)	100
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	100
L554	REWIRE OR REPLACE COMPONENTS ON LOCALLY MANUFACTURED TEST EQUIPMENT	100
K 456	POT CONNECTORS OR RELAYS	100
K417	ASSEMBLE OR DISASSEMBLE TRANSFORMER-RECTIFIER (TR) UNITS	
V202	ADJUST COVERNORS ON CONSTANT SPEED DRIVE (CSD)	90
F117	BENCH CHECK AC GENERATORS WITH SOLID-STATE COMPONENTS	90
K504	REMOVE OR INSTALL PRESSURE SWITCHES ON CSDS	90
J385	BENCH CHECK AC GENERATORS WITH SOLID-STATE COMPONENTS REMOVE OR INSTALL PRESSURE SWITCHES ON CSDS BENCH CHECK WARNING LIGHT CIRCUIT COMPONENTS CLEAN INTERNAL PARTS OF TR UNITS INSPECT ELECTRICAL SYSTEMS FOR CORROSION BEDLACE MICRO SWITCHES	90
K431	CLEAN INTERNAL PARTS OF TR UNITS	90
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	90
N:17.3	REFLAGE PLICAU SALLUNGS	20
E104	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST)	90
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	90
K513	REMOVE OR INSTALL SOLID-STATE COMPONENTS ON PRINTED CIRCUIT	
	BOARDS	90
L545	MAINTAIN AIRCRAFT GENERATOR TEST STANDS (VARI-DRIVES)	90

GROUP ID NUMBER AND TITLE: GRP305

Lighting and Anti-Skid Circuit Specialists

GROUP SIZE: N=5

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-4

AVERAGE TICF: 43 Months

AVERAGE TAFMS: 72 Months

		PERCENT MEMBERS
TASKS		PERFORMING
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	100
	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	100
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	100
K458	REMOVE OR INSTALL ANTI-SKID COMPONENTS	100
1276	ISOLATE MALFUNCTIONS ON FLAP AND SLAT CONTROL AND WARNING	
	LIGHTS	100
1284	ISOLATE MALFUNCTIONS ON INFLIGHT REFUELING (IFR) CIRCUITS	100
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	
	CIRCUITS	100
	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	80
1234	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	80
	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	80
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	80
K439	CRIMP WIRES TO SPLICES AND TERMINALS	60
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	60
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	60
I 304	ISOLATE MALFUNCTIONS ON TAIL HOOK CONTROL CIRCUITS	60
1278	ISOLATE MALFUNCTIONS ON FUEL CONTROL AND WARNING CIRCUITS	40
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	
	CIRCUITS	40
	ISOLATE MALFUNCTIONS ON AIR REFUELING CIRCUITS	40
B40		
	42350)	40
	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	40
K510	· · · · · · · · · · · · · · · · · · ·	
	LIGHTS	40
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	40
C63	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	40
	INSPECT ELECTRICAL BONDS OR GROUNDS	40
K497	REMOVE OR INSTALL LANDING GEAR CONTROL HANDLES ISOLATE MALFUNCTIONS ON SPEED BRAKE CONTROL CIRCUITS	40
1303	ISOLATE MALFUNCTIONS ON SPEED BRAKE CONTROL CIRCUITS	40
	COMPLETE AFTO FORMS 95 (SIGNIFICANT HISTORICAL DATA)	20
	INSPECT AIR REFUELING CIRCUIT COMPONENTS	20
E98	COMPLETE SUPPLY FORMS OR PARTS REQUESTS	20

GROUP ID NUMBER AND TITLE: GRP098

Supervisory Cluster

GROUP SIZE: N=129

PERCENT OF SAMPLE: 7%

AVERAGE GRADE: E-6

AVERAGE TICF: 142 Months

AVERAGE TAFMS: 174 Months

		PERCENT
TASKS		MEMBERS PERFORMING
B23	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	96
	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	92
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS (AFSC	
	42350)	81
A5	DETERMINE WORK PRIORITIES	81
B36	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	77
A14	PLAN OR SCHEDULE WORK ASSIGNMENTS	77
D84	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	75
B21	COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE	73
D 2 A	ACTIVITIES	73 72
B24	DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	12
E92	RECORD)	71
A18	SCHEDULE LEAVES OR PASSES	71
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	71
D74	COUNSEL TRAINEES ON TRAINING PROGRESS	70
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	68
D76		68
D75		68
C60	INDORSE AIRMAN PERFORMANCE REPORTS (APR)	67
D86	REVIEW PROGRESS OF AIRMEN IN CAREER DEVELOPMENT COURSES	
	(CDC)	66
D69		66
E105		
	DATA DOCUMENT)	65
A4	DETERMINE REQUIREMENTS FOR PERSONNEL	65
C48	EVALUATE COMPLIANCE WITH WORK STANDARDS	64
	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	64
G153	OBSERVE IN-PROCESS MAINTENANCE OR MAKE ON THE SPOT	64
D71	CORRECTIVE ACTIONS CONDUCT OJT	63
	COMPLETE CONDITION TAGS AND LABELS	63
C44	ANALYZE WORKLOAD REQUIREMENTS	62
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	61
LIVI	THATHINKI ENGINERALD INDERS ON SOLLETER	01

GROUP ID NUMBER AND TITLE: GRP308

Line and Shop NCOICs

GROUP SIZE: N=51

PERCENT OF SAMPLE: 3%

AVERAGE GRADE: E-6

AVERAGE TICF: 146 Months

AVERAGE TAFMS: 169 Months

TASKS		PERCENT MEMBERS PERFORMING
C63	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	100
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS (AFSC	
	42350)	98
B23	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	98
B24	DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	98
A5	DETERMINE WORK PRIORITIES	94
D75		94
	CONDUCT OJT	94
	COMPLETE CONDITION TAGS AND LABELS	94
	INSPECT AIRCRAFT BATTERIES	92
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	92
E92		
	RECORD)	92
	DETERMINE TRAINING REQUIREMENTS	90
	PLAN OR SCHEDULE WORK ASSIGNMENTS	88
	COMPLETE SUPPLY FORMS OR PARTS REQUESTS	88
	INSPECT SHOP TEST EQUIPMENT OR TEST STANDS	88
D84	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	88
C44	ANALYZE WORKLOAD REQUIREMENTS	88
A 3	DETERMINE REQUIREMENTS FOR MAINTENANCE OF EQUIPMENT	88
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	88
G154		_
	INSPECTIONS	86
B21		
	ACTIVITIES	84
	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST)	84
D86	REVIEW PROGRESS OF AIRMEN IN CAREER DEVELOPMENT COURSES	0.4
260	(CDC)	84
D69	ASSIGN ON-THE-JOB TRAINING (OJT) TRAINERS	84
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	84
C48		82
B36	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	82
	SUBORDINATES TO BUTY DOCUTIONS	
A1		82
A4	DETERMINE REQUIREMENTS FOR PERSONNEL	82

GROUP ID NUMBER AND TITLE: GRP165

Branch and Senior NCOICs

GROUP SIZE: N=41

PERCENT OF SAMPLE: 2%

AVERAGE GRADE: E-7

AVERAGE TICF: 164 Months

AVERAGE TAFMS: 198 Months

		PERCENT MEMBERS
TASKS		PERFORMING
	THE PROPERTY OF THE PROPERTY O	
B36	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	95
B23	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	· -
C52	EVALUATE INSPECTION REPORTS OR PROCEDURES	90
C62	DDEDADE ATDMAN DEDECOMANCE DEDCOTS (ADD)	88
B28	DRAFT CORRESPONDENCE CONDUCT OR PARTICIPATE IN STAFF MEETINGS INDORSE AIRMAN PERFORMANCE REPORTS (APR) SCHEDULE LEAVES OR PASSES EVALUATE INDIVIDUALS FOR PROMOTION, DEMOTION, OR RECLASSIFICATION ASSIGN PERSONNEL TO DUTY POSITIONS DETERMINE WORK PRIORITIES EVALUATE COMPLIANCE WITH WORK STANDRDS DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES DETERMINE REQUIREMENTS FOR PERSONNEL EVALUATE WORK SCHEDULES MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS PLAN OR SCHEDULE WORK ASSIGNMENTS COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE	85
B20	CONDUCT OR PARTICIPATE IN STAFF MEETINGS	85
C60	INDORSE AIRMAN PERFORMANCE REPORTS (APR)	83
A18	SCHEDULE LEAVES OR PASSES	83
C51	EVALUATE INDIVIDUALS FOR PROMOTION, DEMOTION, OR	
	RECLASSIFICATION	83
A1	ASSIGN PERSONNEL TO DUTY POSITIONS	78
A5	DETERMINE WORK PRIORITIES	78
C48	EVALUATE COMPLIANCE WITH WORK STANDRDS	78
B24	DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	78
A4	DETERMINE REQUIREMENTS FOR PERSONNEL	76
C59	EVALUATE WORK SCHEDULES	76
D84	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	76
A14	PLAN OR SCHEDULE WORK ASSIGNMENTS	73
B21	COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE	70
	ACTIVITIES	73
D69		73 72
	ASSIGN SPONSORS FOR NEW PERSONNEL	73 71
B43		/1
C49	EVALUATE EXCEPTION TIME ACCOUNTING (ETA) OR MAINTENANCE DATA COLLECTION (MDC) INFORMATION	71
C54		71
654	OR SUPPLIES	71
C44	ANALYZE WORKLOAD REQUIREMENTS	68
A10		68
B41	SUPERVISE AIRCRAFT ELECTRICAL TECHNICIANS (AFSC 42370)	66
	DETERMINE TRAINING REQUIREMENTS	66
	PLAN OR PREPARE BRIEFINGS	66
	PERFORM MAINTENANCE ACTIVITY INSPECTIONS OR SELF-	-
	INSPECTIONS	63
C45		63

GROUP ID NUMBER AND TITLE: GRP123

Specialist Flightline Supervisors

GROUP SIZE: N=35

PERCENT OF SAMPLE: 2%

AVERAGE GRADE: E-6

AVERAGE TICF: 115 Months

AVERAGE TAFMS: 158 Months

		PERCENT MEMBERS
TASKS		PERFORMING
B23	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	94
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS (AFSC	
	42350)	89
C63	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	89
E93 E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	77
	RECORD)	74
G149		
D74 E105		71
	DATA DOCUMENT)	69
A5	DETERMINE WORK PRIORITIES	66
	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	66
A14	· · · · · · · · · · · · · · · · · ·	63
	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	63
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING CIRCUITS	63
1273		
	CIRCUITS	63
B39		57
B21		
	ACTIVITIES	57
G153	OBSERVE IN-PROCESS MAINTENANCE OR MAKE ON THE SPOT CORRECTIVE ACTIONS	57
D84	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	57 57
1239		37
1233	CIRCUITS	57
D75	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	54
K522		51
1241	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS ISOLATE MALFUNCTIONS ON AIRCRAFT FLIGHT CONTROL CIRCUITS	51
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	51
1240	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	51
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	51
B43	SUPERVISE PERSONNEL OTHER THAN AFSC 423XO	49
	COMPLETE CONDITION TAGS AND LABELS	49
H212	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	49

GROUP ID NUMBER AND TITLE: GRP094

Quality Control Inspectors Cluster

GROUP SIZE: N=20

PERCENT OF SAMPLE: 1%

AVERAGE GRADE: E-6

AVERAGE TICF: 129 Months

AVERAGE TAFMS: 138 Months

		PERCENT MEMBERS
TASKS		PERFORMING
14313		TERT ORTER
G149	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	95
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	95
H164	INSPECT ANTI-SKID CIRCUIT COMPONENTS	95
H227	INSPECT TRANSFORMER-RECTIFIER (TR) CIRCUIT COMPONENTS	95
H163	INSPECT ALTERNATING CURRENT (AC) GENERATOR AND DISTRIBUTION	
	SYSTEM CIRCUIT COMPONENTS	90
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	85
H212	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	85
H195	INSPECT EXTERNAL POWER SYSTEM CIRCUIT COMPONENTS	85
H178	INSPECT CONSTANT SPEED DRIVE (CSD) CIRCUIT COMPONENTS	80
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	80
H208		80
H194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	80
H165	INSPECT AUXILIARY POWER UNIT (APU) CIRCUIT COMPONENTS	80
G153	OBSERVE IN-PROCESS MAINTENANCE OR MAKE ON THE SPOT	
	CORRECTIVE ACTIONS	75
G155		75
G154	PERFORM MAINTENANCE ACTIVITY INSPECTIONS OR SELF-	
	INSPECTIONS	75
H160	INSPECT AIRCRAFT BATTERIES	75
E105	MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT	
	DATA DOCUMENT)	75
H214		75
H167	INSPECT CHARGER SYSTEM CURCUIT COMPONENTS	75
H180	INSPECT CREW ENTRY DOOR CONTROL AND WARNING CIRCUITS	75
H187	INSPECT ELECTRICAL POWER INDICATING INSTRUMENT CIRCUIT	
	COMPONENTS, SUCH AS VOLTMETERS AND LOADMETERS	65
H228		65
H188	INSPECT ELECTRICALLY OPERATED HYDRAULIC PUMP CIRCUIT	
	COMPONENTS	65
C48	EVALUATE COMPLIANCE WITH WORK STANDARDS	60
D75	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	60
H229	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	60
Н199	INSPECT FLAP AND SLAT CONTROL AND WARNING CIRCUIT	
	COMPONENTS	60
C62	INVESTIGATE ACCIDENTS OR INCIDENTS	50

GROUP ID NUMBER AND TITLE: GRP421

FTD Instructors

GROUP SIZE: N=5

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-6

AVERAGE TICF: 175 Months

AVERAGE TAFMS: 185 Months

		PERCENT MEMBERS
TASKS		PERFORMING
D70	CONDUCT FIELD TRAINING DETACHMENT (FTD) CLASSROOM TRAINING	100
D75	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	100
D77	DEVELOP COURSE CURRICULA, PLANS OF INSTRUCTION (POI), OR	
	SPECIALTY TRAINING STANDARDS (STS)	100
E103		100
	RECORDS	100
D68	ADMINISTER OR SCORE TESTS	100
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	100
D85	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT	100
G149	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	100 100
H164 B23	INSPECT ANTI-SKID CIRCUIT COMPONENTS COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	100
H212	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	100
H195	INSPECT EXTERNAL POWER SYSTEM CIRCUIT COMPONENTS	100
H227		100
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	100
H167	INSPECT BATTERY CHARGER SYSTEM CIRCUIT COMPONENTS	100
H165	INSPECT AUXILIARY POWER UNIT (APU) CIRCUIT COMPONENTS	100
	INSPECT CREW ENTRY DOOR CONTROL AND WARNING CIRCUITS	100
H214		100
	INSPECT TRUCK LEVELING SYSTEM CIRCUIT COMPONENTS	100
H188	INSPECT ELECTRICALLY OPERATED HYDRAULIC PUMP CIRCUIT	
	COMPONENTS	100
D84	MAINTAIN TRAINING RECORDS, CHARTS, DR GRAPHS	80
H185		80
D88	WRITE TEST QUESTIONS OR DEVELOP TESTS	80
H187	INSPECT ELECTRICAL POWER INDICATING INSTRUMENT CIRCUIT	20
	COMPONENTS, SUCH AS VOLTMETERS AND LOADMETERS	80
E102	MAINTAIN PUBLICATION LIBRARIES	80
H178	INSPECT CONSTANT SPEED DRIVE (CSD) CIRCUIT COMPONENTS	80
H229	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	80
Н199	INSPECT FLAP AND SLAT CONTROL AND WARNING CIRCUIT	80
E105	COMPONENTS MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT	00
E103	DATA DOCUMENT)	80
	DATA DUCUMENT)	OU

GROUP ID NUMBER AND TITLE: GRP065

Depot Level Maintenance Cluster

GROUP SIZE: N=31

PERCENT OF SAMPLE: 2%

AVERAGE GRADE: E-4

AVERAGE TICF: 47 Months

AVERAGE TAFMS: 59 Months

		PERCENT MEMBERS
TASKS		PERFORMING
K475	REMOVE OR INSTALL CONNECTOR PLUGS	84
	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	84
	CRIMP WIRES TO SPLICES AND TERMINALS	84
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	0.4
VEOF	PANELS	84 61
K525	REWIRE AIRCRAFT ELECTRICAL SYSTSEMS PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS CLEAN CONNECTOR PLUGS	61
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	91
E93	COMPLETE AFTO FORMS 350 (REPARABLE TIEM PROCESSING TAG)	58
K455	PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	55
K418	CLEAN CONNECTOR PLUGS REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS FABRICATE WIRING HARNESSES REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS INSPECT ELECTRICAL BONDS OR GROUNDS ASSEMBLE OR DISASSEMBLE CONTROL BOXES COMPLETE SUPPLY FORMS OR PARTS REQUESTS FABRICATE COMPACT WIRE BUNDLES CRIMP WIRES TO CONVERTER PLUG PINS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES REPLACE COMPACT WIRE BUNDLES FABRICATE ELECTRICAL LEADS CLEAN INTERNAL PARTS OF CONTROL BOXES INSPECT ELECTRICAL SYSTEMS FOR CORROSION REMOVE OR INSTALL RESISTORS OR CAPACITORS ON CONVENTIONAL	55
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	55
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	52
K446	FABRICATE WIRING HARNESSES	48
K506	REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS	48
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	45
K402	ASSEMBLE OR DISASSEMBLE CONTROL BOXES	45
E98	COMPLETE SUPPLY FORMS OR PARTS REQUESTS	45
K441	FABRICATE COMPACT WIRE BUNDLES	42
K438	CRIMP WIRES TO CONVERTER PLUG PINS	42
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	42
E101	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	42
K521	REPLACE COMPACT WIRE BUNDLES	39
K442	FABRICATE ELECTRICAL LEADS	39
K422	CLEAN INTERNAL PARTS OF CONTROL BOXES	39
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	39
K507	REMOVE OR INSTALL RESISTORS OR CAPACITORS ON CONVENTIONAL	
	CIRCUITS	39
K452	PERFORM PROTO-TYPE TIME COMPLIANCE TECHNICAL ORDERS (TCTO)	35
J352	BENCH CHECK EXTERNAL LIGHTING CIRCUIT COMPONENTS	35
G152	INSPECT PARTS RECEIVED FOR SERVICEABILITY	35
H194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	35
K403	CLEAN INTERNAL PARTS OF CONTROL BOXES INSPECT ELECTRICAL SYSTEMS FOR CORROSION REMOVE OR INSTALL RESISTORS OR CAPACITORS ON CONVENTIONAL CIRCUITS PERFORM PROTO-TYPE TIME COMPLIANCE TECHNICAL ORDERS (TCTO) BENCH CHECK EXTERNAL LIGHTING CIRCUIT COMPONENTS INSPECT PARTS RECEIVED FOR SERVICEABILITY INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS ASSEMBLE OR DISASSEMBLE CONTROL PANELS INSPECT CONTROL ROXES OR JUNCTION ROXES FOR BURNING OR	35
K447	INSPECT CONTROL BOXES OR JUNCTION BOXES FOR BURNING OR	
	CHAFFING	32
K519	REMOVE OR INSTALL WIRING IN CONTROL BOXES OR PANELS	32

GROUP ID NUMBER AND TITLE: GRP207

Solid State Component and Test

Equipment Maintenance

GROUP SIZE: N=5

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-4

AVERAGE TICF: 66 Months

AVERAGE TAFMS: 76 Months

		PERCENT MEMBERS
TASKS		PERFORMING
K513	REMOVE OR INSTALL SOLID-STATE COMPONENTS ON PRINTED	
N313	CIRCUIT BOARDS	100
F147		
	CIRCUIT BOARDS	100
K422	REMOVE OR INSTALL RESISTORS OR CAPACITORS ON SOLID-STATE CIRCUIT BOARDS CLEAN INTERNAL PARTS OF CONTROL BOXES PERFORM SOLDERING ON SOLID-STATE CIRCUIT BOARDS REMOVE OR INSTALL SOLID-STATE CIRCUIT BOARDS BENCH CHECK AC CONTROL PANEL SOLID-STATE COMPONENTS BENCH CHECK EXTERNAL LIGHTING CIRCUIT COMPONENTS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	100
K453	PERFORM SOLDERING ON SOLID-STATE CIRCUIT BOARDS	100
K512	REMOVE OR INSTALL SOLID-STATE CIRCUIT BOARDS	100
F115	BENCH CHECK AC CONTROL PANEL SOLID-STATE COMPONENTS	100
J352	BENCH CHECK AC CONTROL PANEL SULID-STATE COMPONENTS BENCH CHECK EXTERNAL LIGHTING CIRCUIT COMPONENTS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS ASSEMBLE OR DISASSEMBLE CONTROL BOXES REMOVE OR INSTALL CONNECTOR PLUGS PERFORM SOLDERLESS CONNECTOR PLUGS PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	100
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	100
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	100
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	80
K402	ASSEMBLE OR DISASSEMBLE CONTROL BOXES	80
K475	REMOVE OR INSTALL CONNECTOR PLUGS	80
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	80
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	80
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR	00
	CONTROL PANELS	80
L527	INSPECT SHOP TEST EQUIPMENT OR TEST STANDS	80
K418	CLEAN CONNECTOR PLUGS	80
K523	REPLACE MICRO SWITCHES	80
J324	BENCH CHECK ANTI-SKID CONVENTIONAL COMPONENTS	80
F120	BENCH CHECK ANTI-SKID SULTD-STATE COMPONENTS	80
1136	RENCH CHECK OVERHEA! MAKNING CIRCUIT SULID-STATE	80
V 4 2 0	COUNT HIDE TO COLICE AND TERMINALS	80
K439	MAYE ENTRES IN SELECTOR SOME (ISSUE/THEN IN DECHEST)	80
K422	CLEAN INTERNAL DARTS OF VOLTAGE DECILATORS	80
F 0 8	COMPLETE SUDDLY FORMS OF POLITICE REGULATORS	80
K 1 2 3	CLEAN INTERNAL DARTS OF CONTROL DANFIS	80
K423	ASSEMBLE OF DISASSEMBLE CONNECTOR DILICS	60
1360	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL PANELS INSPECT SHOP TEST EQUIPMENT OR TEST STANDS CLEAN CONNECTOR PLUGS REPLACE MICRO SWITCHES BENCH CHECK ANTI-SKID CONVENTIONAL COMPONENTS BENCH CHECK ANTI-SKID SOLID-STATE COMPONENTS BENCH CHECK OVERHEAT WARNING CIRCUIT SOLID-STATE COMPONENTS CRIMP WIRES TO SPLICES AND TERMINALS MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST) CLEAN INTERNAL PARTS OF VOLTAGE REGULATORS COMPLETE SUPPLY FORMS OR PARTS REQUESTS CLEAN INTERNAL PARTS OF CONTROL PANELS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS BENCH CHECK INTERNAL LIGHTING CIRCUIT COMPONENTS REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	60
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	60
F118	BENCH CHECK AC POWER DISTRIBUTION SOLID-STATE COMPONENTS	60
1110	DENOIS OFFICE ACTIONER DISTRIBUTION SOLID STATE COM CHEMIS	~~

GROUP ID NUMBER AND TITLE: GRP261

General Aircraft Electrical Systems

Maintenance

GROUP SIZE: N=11

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-4

AVERAGE TICF: 52 Months

AVERAGE TAFMS: 56 Months

TASKS		PERCENT MEMBERS PERFORMING
K455	PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	100
	CRIMP WIRES TO SPLICES AND TERMINALS	100
K525		100
K526		
	PANELS	100
K446	PANELS FABRICATE WIRING HARNESSES REMOVE OR INSTALL PINS ON CONNECTOR PLUGS INSPECT ELECTRICAL BONDS OR GROUNDS REMOVE OR INSTALL CONNECTOR PLUGS PERFORM PROTO_TYPE TIME COMPLIANCE TECHNICAL ORDERS (TCTO)	100
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	91
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	91
K475	REMOVE OR INSTALL CONNECTOR PLUGS	82
NTOL	TENTONI TROTO-THE TIME DOSSETANCE TECHNIQUE ORDERS (1010)	
K438	CRIMP WIRES TO CONVERTER PLUG PINS	82
K402	ASSEMBLE OR DISASSEMBLE CONTROL BOXES	82
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	73
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	73
K521	REPLACE COMPACT WIRE BUNDLES	73
K418	CLEAN CONNECTOR PLUGS	73
K506	REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS	73
K437	CRIMP KAPTON WIRE TO CONVERTOR PLUG PINS	64
K447	ASSEMBLE OR DISASSEMBLE CONTROL BOXES PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS REPLACE COMPACT WIRE BUNDLES CLEAN CONNECTOR PLUGS REMOVE OR INSTALL RELAYS IN CONTROL BOXES OR PANELS CRIMP KAPTON WIRE TO CONVERTOR PLUG PINS INSPECT CONTROL BOXES OR JUNCTION BOXES FOR BURNING OR CHAFFING FABRICATE COMPACT WIRE BUNDLES REMOVE OR INSTALL WIRING IN CONTROL BOXES OR PANELS FABRICATE ELECTRICAL LEADS ASSEMBLE OR DISASSEMBLE CONTROL PANELS	
	CHAFFING	64
K441	FABRICATE COMPACT WIRE BUNDLES	64
K519	REMOVE OR INSTALL WIRING IN CONTROL BUXES OR PANELS	64
K442	FABRICATE ELECTRICAL LEAUS	64
K4U3	ASSEMBLE UK DISASSEMBLE CONTROL PANELS	04 64
£93	INCORPORT FLECTOREAL EVETENC FOR CORROCTON	04 EE
VED7	ASSEMBLE OR DISASSEMBLE CONTROL PANELS COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) INSPECT ELECTRICAL SYSTEMS FOR CORROSION REMOVE OR INSTALL RESISTORS OR CAPACITORS ON CONVENTIONAL CIRCUITS POT CONNECTORS OR RELAYS CLEAN INTERNAL PARTS OF CONTROL BOXES FABRICATE BONDINGS INSPECT ADDITIONAL SYSTEMS FOLLOWING MAINTENANCE	99
7007	CONVENTIONAL CIDCUITS OF CAPACITORS OF	55
VAEC	DOT CONNECTORS OF DELVAS	35 45
K422	CIFAN INTEDNAL PARTS OF CONTROL ROYES	45 45
KAAN	FARRICATE RONDINGS	45
G149	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	45
K423	CLEAN INTERNAL PARTS OF CONTROL PANELS	45
	INSPECT PARTS RECEIVED FOR SERVICEABILITY	45
E101		45

GROUP ID NUMBER AND TITLE: GRP233 Line Quality Control Personnel

GROUP SIZE: N=5 PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-5 AVERAGE TICF: 89 Months

AVERAGE TAFMS: 104 Months

TASKS		PERCENT MEMBERS PERFORMING
17373		TENT ON THE
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	100
G149	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	100
G154	PERFORM MAINTENANCE ACTIVITY INSPECTIONS OR SELF-	
	INSPECTIONS	100
G153	OBSERVE IN-PROCESS MAINTENANCE OR MAKE ON THE SPOT	
	CORRECTIVE ACTIONS	80
	PERFORM SPECIAL INSPECTIONS OF AIRCRAFT ELECTRICAL SYSTEMS	
	INSPECT ELECTRICAL BONDS OR GROUNDS	60
	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	60
	INITIATE MATERIAL DEFICIENCY REPORTS	40
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	40
K475		40
B39	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS HELPERS (AFSC	00
500	42330)	20
E92 E105	COMPLETÉ AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT	20
	DATA DOCUMENT)	20
K418		20
K439	CRIMP WIRES TO SPLICES AND TERMINALS	20
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	
	PANELS	20
C48		20
C63		20
	COMPLETE SUPPLY FORMS OR PARTS REQUESTS	20
K456		20
B36	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	20
C52	EVALUATE INSPECTION REPORTS OR PROCEDURES	20
	ESTABLISH PERSONNEL PERFORMANCE STANDARDS	20
C44		20
G151	INSPECT IN-SHOP REPAIR OF AEROSPACE GROUND EQUIPMENT (AGE)	
	EQUIPMENT MAINTENANCE	20
G152	INSPECT PARTS RECEIVED FOR SERVICEABILITY EVALUATE SUGGESTIONS	20
U5/	EVALUATE DUGGESTIONS	20
	DETERMINE REQUIREMENTS FOR MAINTENANCE OR EQUIPMENT	20
A16	PLAN UNSATISFACTORY REPORT PROCEDURES	20

GROUP ID NUMBER AND TITLE: GRP029

Trainer Cluster

GROUP SIZE: N=40

PERCENT OF SAMPLE: 2%

AVERAGE GRADE: E-6

AVERAGE TICF: 136 Months

AVERAGE TAFMS: 144 Months

		PERCENT MEMBERS
TASKS		PERFORMING
D74	COUNSEL TRAINEES ON TRAINING PROGRESS	72
D75		67
	AUMINISTER OR SCORE TESTS	65
B23		65
D84	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	50
D77		
	SPECIALTY TRAINING STANDARDS (STS)	50
E103	MAINTAIN TECHNICAL ORDER (TO) FILES OR TO COMPLIANCE	
	RECORDS	47
B36	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	47
D88	WRITE TEST QUESTIONS OR DEVELOP TESTS	47
D70	SPECIALTY TRAINING STANDARDS (STS) MAINTAIN TECHNICAL ORDER (TO) FILES OR TO COMPLIANCE RECORDS INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES WRITE TEST QUESTIONS OR DEVELOP TESTS CONDUCT FIELD TRAINING DETACHMENT (FTD) CLASSROOM TRAINING CONDUCT OR PARTICIPATE IN STAFF MEETINGS DEVELOP OR IMPROVE METHODS OR PROCEDURES ESTABLISH OR MAINTAIN STUDY REFERENCE FILES DETERMINE TRAINING REQUIREMENTS CONDUCT RESIDENT COURSE CLASSROOM TRAINING PLAN OR PREPARE BRIEFINGS DRAFT CORRESPONDENCE CONDUCT TRAINING CONFERENCES OR BRIEFINGS PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT EVALUATE PROGRESS OF RESIDENT COURSE STUDENTS COMPLETE CONDITION TAGS AND LABELS MAKE ENTRIES ON AGE FORMS, SUCH AS NONPOWERED RECORD FORMS COMPLETE AF FORMS 1492 (DANGER)	
	TRAINING	45
B20	CONDUCT OR PARTICIPATE IN STAFF MEETINGS	45
	DEVELOP OR IMPROVE METHODS OR PROCEDURES	45
D79	ESTABLISH OR MAINTAIN STUDY REFERENCE FILES	40
	DETERMINE TRAINING REQUIREMENTS	40
	CONDUCT RESIDENT COURSE CLASSROOM TRAINING	38
	PLAN OR PREPARE BRIEFINGS	38
	DRAFT CORRESPONDENCE	35
	CONDUCT TRAINING CONFERENCES OR BRIEFINGS	32
	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT	32
	EVALUATE PROGRESS OF RESIDENT COURSE STUDENTS	30
E95	COMPLETE CONDITION TAGS AND LABELS	27
	MAKE ENTRIES ON AGE FORMS, SUCH AS NONPOWERED RECORD FORMS	25
E90	COMPLETE AF FORMS 1492 (DANGER)	25
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	25
	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) INVENTORY EQUIPMENT TOOLS, OR SUPPLIES SUPERVISE PERSONNEL OTHER THAN AFSC 423X0 SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS (AFSC 42350)	22
	SUPERVISE PERSONNEL OTHER THAN AFSC 423XO	22
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS	
		22
D83		20
	IMPLEMENT GROUND SAFETY PROGRAMS OR PROCEDURES	20
	EVALUATE SUGGESTIONS	20
C63	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	20

GROUP ID NUMBER AND TITLE: GRP073

FTD Instructors

GROUP SIZE: N=18

PERCENT OF SAMPLE: 1%

AVERAGE GRADE: E-6

AVERAGE TICF: 171 Months

AVERAGE TAFMS: 180 Months

TASKS		PERCENT MEMBERS PERFORMING
D70	CONDUCT FIELD TRAINING DETACHMET (FTD) CLASSROOM TRAINING	100
	DEMONSTRATE HOT TO LOCATE TECHNICAL INFORMATION	94
E103		•
	RECORDS	83
D77	DEVELOP COURSE CURRICULA, PLANS OF INSTRUCTION (POI), OR	
	SPECIALTY TRAINING STANDARDS (STS)	83
D74		72
D68	ADMINISTER OR SCORE TESTS	61
	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	
	ESTABLISH OR MAINTAIN STUDY REFERENCE FILES	56
	COMPLETE CONDITION TAGS AND LABELS	56
E90	COMPLETE AF FORMS 1492 (DANGER)	56
D88	WRITE TEST QUESTIONS OR DEVELOP TESTS	50
E106		50
D76	DETERMINE TRAINING REQUIREMENTS	44
B43	SUPERVISE PERSONAL OTHER THAN AFSC 423X0	44
B24	DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	44
	DRAFT CORRESPONDENCE	39 39
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) IMPLEMENT GROUND SFETY PROGRAMS OR PROCEDURES	39 33
		33 33
	EVALUATE COMPLIANCE WITH WORK STANDARDS	33 33
	CONDUCT TRAINING CONFERENCES OR BRIEFINGS	33
830	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	33
K526		J J
KOZO	PANELS	33
E105		33
	DATA DOCUMENT)	33
EOV	COMPLETE AFTO FORMS 95 (SIGNIFICANT HISTORICAL DATA) MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS PREPARE AIRMAN PERFORMANCE REPORTS (APR) INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES EVALUATE FIELD TRAINING DETACHMENT (FTD) TRAINING	33
D84	MAINTAIN TOAINING DECODOS CHADTS OF GDADHS	28
C 6.3	DDEDADE AIDMAN DEDENDMANCE DEDNOTS (ADD)	28
F101	INVENTORY FOILIDMENT TOOLS OR SUPPLIES	28
DRU	EVALUATE FIELD TRAINING DETACHMENT (FTD) TRAINING	28
D85	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT	28
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS (AFSC	
570	42350)	28
	•	

GROUP ID NUMBER AND TITLE: GRP120 In-Residence Training Instructors

GROUP SIZE: N=16

PERCENT OF SAMPLE: 1%

AVERAGE GRADE: E-5

AVERAGE TICF: 82 Months

AVERAGE TAFMS: 88 Months

		PERCENT MEMBERS
TASKS		PERFORMING
INSKS		FERIORITING
D68	ADMINISTER OR SCORE TESTS	94
D74	COUNSEL TRAINEES ON TRAINING PROGRESS	94
D84	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	88
D72	CONDUCT RESIDENT COURSE CLASSROOM TRAINING	75
B23	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED	
	MATTERS	75
D82		63
D75	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	56
D88		56
B36	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	56
D85	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT	50
B20	CONDUCT OR PARTICIPATE IN STAFF MEETINGS	50
A13		50
D76	DETERMINE TRAINING REQUIREMENTS	44
B24	DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	44
D86	REVIEW PROGRESS OF AIRMEN IN CAREER DEVELOPMENT COURSES (CDC)	38
D73	•	38
	ESTBLISH OR MAINTAIN STUDY REFERENCE FILES	31
	DIRECT OR IMPLEMENT OJT TRAINING PROGRAMS	31
	EVALUATE RESIDENT COURSE TRAINING	31
D77		
<i>.</i> ,,	SPECIALTY TRAINING STANDARDS (STS)	25
E101	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	25
B21	COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE	
	ACTIVITIES	25
E103	MAINTAIN TECHNICAL ORDER (TO) FILES OR TO COMPLIANCE	
	RECORDS	19
C45	EVALUATE ADMINISTRATIVE FORMS, FILES, OR PROCEDURES	19
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS (AFSC	
	42350)	19
D71	CONDUCT OJT	19
	ESTABLISH PERSONNEL PERFORMANCE STANDARDS	19
	ASSIGN ON-THE-JOB TRAINING (OJT) TRAINERS	19
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	19

GROUP ID NUMBER AND TITLE: GRP015

Maintenance Control and Scheduling

Cluster

GROUP SIZE: N=26

PERCENT OF SAMPLE: 1%

AVERAGE GRADE: E-6

AVERAGE TICF: 157 Months

AVERAGE TAFMS: 174 Months

		PERCENT
		MEMBERS
TASKS		PERFORMING
B21	COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE	4-
	ACTIVITIES	65 50
A5	DETERMINE WORK PRIORITIES	50
	SUPERVISE PERSONNEL OTHER THAN AFSC 423X0	46
B22	COORDINATE WITH MATERIAL CONTROL ON CANNIBALIZATION OF	46
B27	PARTS DIRECT MAINTENANCE OR UTILIZATION OF EQUIPMENT	38
B36		30
030	SUBORDINATES	38
B25		30
DLJ	OR CHARTS	35
B20		35
E105		•
-100	DATA DOCUMENT)	35
A14	DI AN AD AAUGAULE HARV SCATANAGUTO	21
C44	ANALYZE WORKLOAD REQUIREMENTS COUNSEL PERSONNEL ONPERSONAL OR MILITARY-RELATED MATTERS DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES EVALUATE COMPLIANCE WITH WORK STANDARDS COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) PREPARE AIRMAN PERFORMANCE REPORTS (APR) IMPLEMENT GROUND SAFETY PROGRAMS OR PROCEDURES EVALUATE ALERT OR EMERGENCY PROCEDURES DETERMINE REQUIREMENTS FOR PERSONNEL DRAFT CORRESPONDENCE INDORSE AIRMAN PERFORMANCE REPORTS (APR) COMPLETE AF FORMS 1492 (DANGER)	27
B23	COUNSEL PERSONNEL ONPERSONAL OR MILITARY-RELATED MATTERS	27
B24	DEVELOP OR IMPROVE WORK METHODS OR PROCEDURES	27
C48	EVALUATE COMPLIANCE WITH WORK STANDARDS	23
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	
	RECORD)	23
C63	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	23
B31	IMPLEMENT GROUND SAFETY PROGRAMS OR PROCEDURES	19
C46	EVALUATE ALERT OR EMERGENCY PROCEDURES	19
A4	DETERMINE REQUIREMENTS FOR PERSONNEL	19
B28	DRAFT CORRESPONDENCE	19
C60	INDORSE AIRMAN PERFORMANCE REPORTS (APR)	19
E90	COMPLETE AF FORMS 1492 (DANGER)	19 19
E93 E104	COMPLETE AFTO FORMS 350 (REPARABLE TIEM PROCESSING TAG)	15
C62	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST) INVESTIGATE ACCIDENTS OR INCIDENTS COMPLETE SUPPLY FORMS OR PARTS REQUESTS MAINTAIN OR UPDATE CONTINGENCY PLANS	15
E98	INVESTIGATE AUGIDENTS OR INCIDENTS	15
B37	MAINTAIN OF HEURIE CONTINCENCY DIANS	15
ΔQ/	DRAFT OR UPDATE CONTINUENCY FLANS	15
N75	DRAFT OR UPDATE STANDING OPERATING PROCEDURES (SOP) DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	15
0/5	DEGOLD LIVIE IN EACULE LEGILITARE THE AUGUSTAN	

GROUP ID NUMBER AND TITLE: GRP323

Schedulers

GROUP SIZE: N=5

PERCENT OF SAMPLE: Less than 1%

AVERAGE GRADE: E-6

AVERAGE TICF: 181 Months

AVERAGE TAFMS: 196 Months

TASKS		PERCENT MEMBERS PERFORMING
B25	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS, OR CHARTS	100
B22	COORDINATE WITH MATERIAL CONTROL ON CANNIBALIZATION OF PARTS	100
B21	COORDINATE WITH MAINTENANCE CONTROL ON MAINTENANCE ACTIVITIES	80
C46	************	80 80
	DETERMINE WORK PRIORITIES	60
	ANALYZE WORKLOAD REQUIREMENTS	60
	PLAN OR SCHEDULE WORK ASSIGNMENTS	60
A4		60
R36	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	•
500	SUBORDINATES	60
A13	PLAN OR PREPARE BRIEFINGS	60
B43		40
E92		
	RECORD)	40
E100	INITIATE WORK ORDER REQUESTS	40
E98	COMPLETE SUPPLY FORMS OR PARTS REQUESTS	40
B20		40
B27	DIRECT MAINTENANCE OR UTILIZATION OF EQUIPMENT	40
B28	DRAFT CORRESPONDENCE	40
E93 B23	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED	40
DZJ	MATTERS	40
063	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	40
D84	MAINTAIN TRAINING DECODES CHARTS OF CRADES	40
E104		20
E102	MAINTAIN PUBLICATION LIBRARIES	20
E103	MAINTAIN TECHNICAL ORDER (TO) FILES OR TO COMPLIANCE	
	RECORDS	20
E96		20
A18		20
A3 C49	DETERMINE REQUIREMENTS FOR MAINTENANCE OF EQUIPMENT EVALUATE EXCEPTION TIME ACCOUNTING (ETA) OR MAINTENANCE	20
	DATA COLLECTION (MDC) INFORMATION	20

APPENDIX B SELECTED REPRESENTATIVE TASKS PERFORMED BY DUTY AFSC GROUPS

TABLE B1

GROUP ID NUMBER AND TITLE: SPC007

COMBINED DAFSC 42330 AND 42350 AIRMEN

GROUP SIZE: N=1,324

PERCENT OF SAMPLE: 73%

AVERAGE GRADE: E-4

AVERAGE TICF: 38 Months

AVERAGE TAFMS: 49 Months

		PERCENT MEMBERS
TASKS		PERFORMING
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	85
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	82
K475	REMOVE OR INSTALL CONNECTOR PLUGS	80
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	80
K439		79
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	78
	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	77
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	
	CIRCUITS	76
K418		73
1239		
	CIRCUITS	72
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	72
	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	72
	INSPECT ELECTRICAL BONDS OR GROUNDS	72
	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND	
	WARNING CIRCUITS	72
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	7.0
	PANELS	70
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	69
1240	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	69
K455	PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	
K455	PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	67
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	66
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	66
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	65
H194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	64
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	63
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	63
	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	63
K525		63
G150	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	60

TABLE B2

GROUP ID NUMBER AND TITLE: SPC004

DUTY AFSC 42370 Airmen

GROUP SIZE: N=487

PERCENT OF SAMPLE: 27%

AVERAGE GRADE: E-6

AVERAGE TICF: 135 Months

AVERAGE TAFMS: 154 Months

TASKS		PERCENT MEMBERS PERFORMING
	COMPLETE AFTO FORMS 350 (PERADARIF LIFEN PROCESSING TAC)	77
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	77
C63	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	76
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	75
000	RECORD)	
B23	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	/5
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS	73
C140	(AFSC 42350) INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE	
	MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT	/1
E105	DATA DOCUMENT)	69
1273	· · · · · · · · · · · · · · · · · · ·	09
12/3	CIRCUITS	67
1239		07
1233	CIRCUITS	67
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	0,
	CIRCUITE	66
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	66
D75	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	66
1234	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	66
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	66
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	64
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	63
K475	REMOVE OR INSTALL CONNECTOR PLUGS	03
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	62
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	62
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	62
K439		61
	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	61
	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	61
H163	INSPECT ALTERNATING CURRENT (AC) GENERATOR AND DISTRIBUTION	
	SYSTEM CIRCUIT COMPONENTS	61
	INSPECT WARNING LIGHT CIRCUIT COMPONENTS	60
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	60

APPENDIX C SELECTED REPRESENTATIVE TASKS PERFORMED BY TAFMS GROUPS

GROUP ID NUMBER AND TITLE: SPC010 423X0 Airmen in 1st Job (1-24 months)

GROUP SIZE: N=265 PERCENT OF SAMPLE: 15%
AVERAGE GRADE: E-3 AVERAGE TICF: 17 Months

AVERAGE TAFMS: 20 Months

TASKS		PERCENT MEMBERS PERFORMING
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	83
K475	REMOVE OR INSTALL CONNECTOR PLUGS	82
K439		80
K503	REMOVE OR INSTALL PINS ON CONNECTORS PLUGS	80
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	78
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	74
	CIRCUITS	74
	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	74
	INSPECT ELECTRICAL BONDS OR GROUNDS	73 71
	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	/1
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING CIRCUITS	71
7 200	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	71 71
	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	/1
1239	CIRCUITS	71
V #10	CLEAN CONNECTOR PLUGS	71
K526		/1
K320	PANELS	
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	68
K455	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	68
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	68
1240	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	67
	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	66
	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	66
	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	65
K525	REWIRE AIRCRAFT ELECTRICAL SYSTEMS	65
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	63
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	62
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	62
1271	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS REMOVE OR INSTALL RHEOSTATS	60 60
	MENOTE ON THOUSE MINEQUINITY	
	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	58 56
K523	REPLACE MICRO SWITCHES	56

GROUP ID NUMBER AND TITLE: SPC012 423X0 Airmen in 1st Enlistment (1-48 months)

GROUP SIZE: N=821

PERCENT OF SAMPLE: 45%

AVERAGE GRADE: E-3

AVERAGE TICF: 27 Months

AVERAGE TAFMS: 30 Months

TASKS		PERCENT MEMBERS PERFORMING
E93 K475		85 82
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	82
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	80
	CRIMP WIRES TO SPLICES AND TERMINALS	80
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	78
	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	78
1273	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS CRIMP WIRES TO SPLICES AND TERMINALS REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION CIRCUITS	
	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	74
	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	74
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION CIRCUITS	74
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	74
	CLEAN CONNECTOR PLUGS	73
	INSPECT ELECTRICAL BONDS OR GROUNDS	73
K526		
	PANELS	72
	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	71
	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	70
	PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	
	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	70 68
	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	68
	REWIRE AIRCRAFT ELECTRICAL SYSTEMS	67
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	67
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	65
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	65
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	64
	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	61
K523	REPLACE MICRO SWITCHES	60

GROUP ID NUMBER AND TITLE: SPC013

423X0 Airmen in 2d Enlistment

(49-96 Months)

GROUP SIZE: N=503

PERCENT OF SAMPLE: 28%

AVERAGE GRADE: E-5

AVERAGE TICF: 56 Months

AVERAGE TAFMS: 69 Months

TASKS		PERCENT MEMBERS PERFORMING
E93 E92	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	85
	RECORD)	82
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	79
K475	REMOVE OR INSTALL CONNECTOR PLUGS	78
K439	CRIMP WIRES TO SPLICES AND TERMINALS	77
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	
1269 1273	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	76
	CIRCUITS	74
K418		72
1290	ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING	
	CIRCUITS	72
1308		71
1239		
	CIRCUITS	71
H185		71
	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	69
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR	
	CONTROL PANELS	68
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	68
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	
1240	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION PERFORM TCTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	65
K455	PERFORM ICTO MODIFICATIONS OF AIRCRAFT ELECTRICAL SYSTEMS	64
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	63
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	62
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	61
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	61
H194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	61
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	61
K401	ASSEMBLE OK DISASSEMBLE CONNECTOR PLUGS	60
E105	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT) DATA DOCUMENT)	60

GROUP ID NUMBER AND TITLE: SPC014 49

423X0 Career Airmen (97+ Months)

GROUP SIZE: N=490

PERCENT OF SAMPLE: 27%

AVERAGE GRADE: E-6

AVERAGE TICF: 137 Months

AVERAGE TAFMS: 166 Months

TASKS		PERCENT MEMBERS PERFORMING
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	77
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	
C63	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	75
B23	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	73
B40	SUPERVISE AIRCRAFT ELECTRICAL SYSTEMS SPECIALISTS	60
	(AFSC 42350)	69
E105		60
0140	DATA DOCUMENT)	68 67
	INSPECT AIRCRAFT ELECTRICAL SYSTEMS FOLLOWING MAINTENANCE ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	0/
12/3	CIRCUITS	66
1239		00
1233	CIRCUITS	66
1234	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTSEMS	65
	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	65
1290	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS ISOLATE MALFUNCTIONS ON LANDING GEAR CONTROL AND WARNING CIRCUITS ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS INSPECT ELECTRICAL BONDS OR GROUNDS INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS CRIMP WIRES TO SPLICES AND TERMINALS DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	•
	CIRCUITS	63
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	63
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	63
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	63
K439	CRIMP WIRES TO SPLICES AND TERMINALS	62
D75	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	62
H194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	62
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	62
K4/5	REMOVE OR INSTALL CONNECTOR PLUGS	61
	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	
	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	60
	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	60 59
H229	INSPECT WARNING LIGHT CIRCUIT COMPONENTS INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	59 58
		58
E95	COMPLETE TAGS AND LABELS ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	58 58
	CLEAN CONNECTOR PLUGS	57
E101	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	57
LIOI	THICKLORY ENGINEERS LOOKS ON SOLIETES	•

APPENDIX D SELECTED REPRESENTATIVE TASKS PERFORMED BY CONUS/OVERSEAS GROUPS

TABLE D1

GROUP ID NUMBER AND TITLE: SPC019

DUTY AFSC 42350 Airmen (CONUS)

GROUP SIZE: N=862

PERCENT OF SAMPLE: 48%

AVERAGE GRADE: E-4

AVERAGE TICF: 40 Months

AVERAGE TAFMS: 50 Months

TASKS		PERCENT MEMBERS PERFORMING
E93 E92	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) REMOVE OR INSTALL PINS ON CONNECTOR PLUGS CRIMP WIRES TO SPLICES AND TERMINALS REMOVE OR INSTALL CONNECTOR PLUGS REPLACE FUSES, CURRENT LIMITERS,OR CIRCUIT BREAKERS ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION CIRCUITS ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION	86
	RECORD)	83
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	82
K439	CRIMP WIRES TO SPLICES AND TERMINALS	81
K475	REMOVE OR INSTALL CONNECTOR PLUGS	81
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	80
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	79
1273	ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION	
	CIRCUITS	78
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	76
1234	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	76
1239	ISOLATE MALFUNCTIONS ON AIRCRAFT AC POWER DISTRIBUTION CIRCUITS	76
U1 05	INSPECT ELECTRICAL BONDS OR GROUNDS	76 75
1290		75
1290	CIRCUITS	75
KA18	CLEAN CONNECTOR PLUGS	74
K526		• •
KJZU	PANELS	73
K455		
	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	72
1286	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	71
H197	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	70
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	68
1243	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	67
K458	REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	66
K194	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	66
1271	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS	
	REWIRE AIRCRAFT ELECTRICAL SYSTEMS	6 5
K208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	65
	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	
	INSPECT ELECTRICAL SYSTEMS FOR CORROSION	62
H212	INSPECT LANDING GEAR CONTROL AND WARNING CIRCUIT COMPONENTS	61

TABLE D2

GROUP ID NUMBER AND TITLE: SPC020

DUTY AFSC 42350 Airmen (OVERSEAS)

GROUP SIZE: N=262

PERCENT OF SAMPLE: 14%

AVERAGE GRADE: E-4

AVERAGE TICF: 48 Months

AVERAGE TAFMS: 54 Months

		PERCENT MEMBERS
TASKS		PERFORMING
E93	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	81
E92	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	
K475		76
V420	COIND HIDES TO SDITCES AND TERMINALS	76
1269	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS	74
K503	REMOVE OR INSTALL PINS ON CONNECTOR PLUGS	73
1273	ISOLATE MALFUNCTIONS ON EXTERIOR LIGHTING CIRCUITS REMOVE OR INSTALL PINS ON CONNECTOR PLUGS ISOLATE MALFUNCTIONS ON FIRE AND OVERHEAT DETECTION CIRCUITS REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	
	CIRCUITS	71
K522	REPLACE FUSES, CURRENT LIMITERS, OR CIRCUIT BREAKERS	71
1308	ISOLATE MALFUNCTIONS ON WARNING LIGHT CIRCUITS	70
	CLEAN CONNECTOR PLUGS	70
	ISOLATE MALFUNCTIONS ON INTERNAL LIGHTING CIRCUITS	69
1290		
	CIRCUITS	68
1239		
	CIRCUITS	68
H185	INSPECT ELECTRICAL BONDS OR GROUNDS	66
1240	ISOLATE MALFUNCTIONS ON AIRCRAFT DC POWER DISTRIBUTION	65
1234	ISOLATE MALFUNCTIONS ON AC GENERATOR SYSTEMS	64
	ISOLATE MALFUNCTIONS ON ANTI-SKID CIRCUITS	63
	INSPECT EXTERIOR LIGHTING CIRCUIT COMPONENTS	63
K526	SOLDER WIRES TO CONNECTOR PLUGS, CONTROL BOXES, OR CONTROL	62
V 455	PANELS PERFORM TOTAL MODIFICATIONS OF ALDERANT SUBSTRICAL SYSTEMS	
K455		
H197 I271	INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS	60
K458	ISOLATE MALFUNCTIONS ON EXTERNAL POWER SYSTEM CIRCUITS REMOVE OR INSTALL ANTI-SKID CIRCUIT COMPONENTS	60 60
H208	INSPECT INTERIOR LIGHTING CIRCUIT COMPONENTS	59
K487	REMOVE OR INSTALL FIRE OR OVERHEAT LOOPS	58
K401	ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS	57
K454	PERFORM SOLDERLESS CONNECTOR INSERTIONS OR EXTRACTIONS	56
E105	MAKE ENTRIES ON AFTO FORMS 781 (AEROSPACE VEHICLE FLIGHT	50
_103	DATA DOCUMENT)	55
H212		55

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